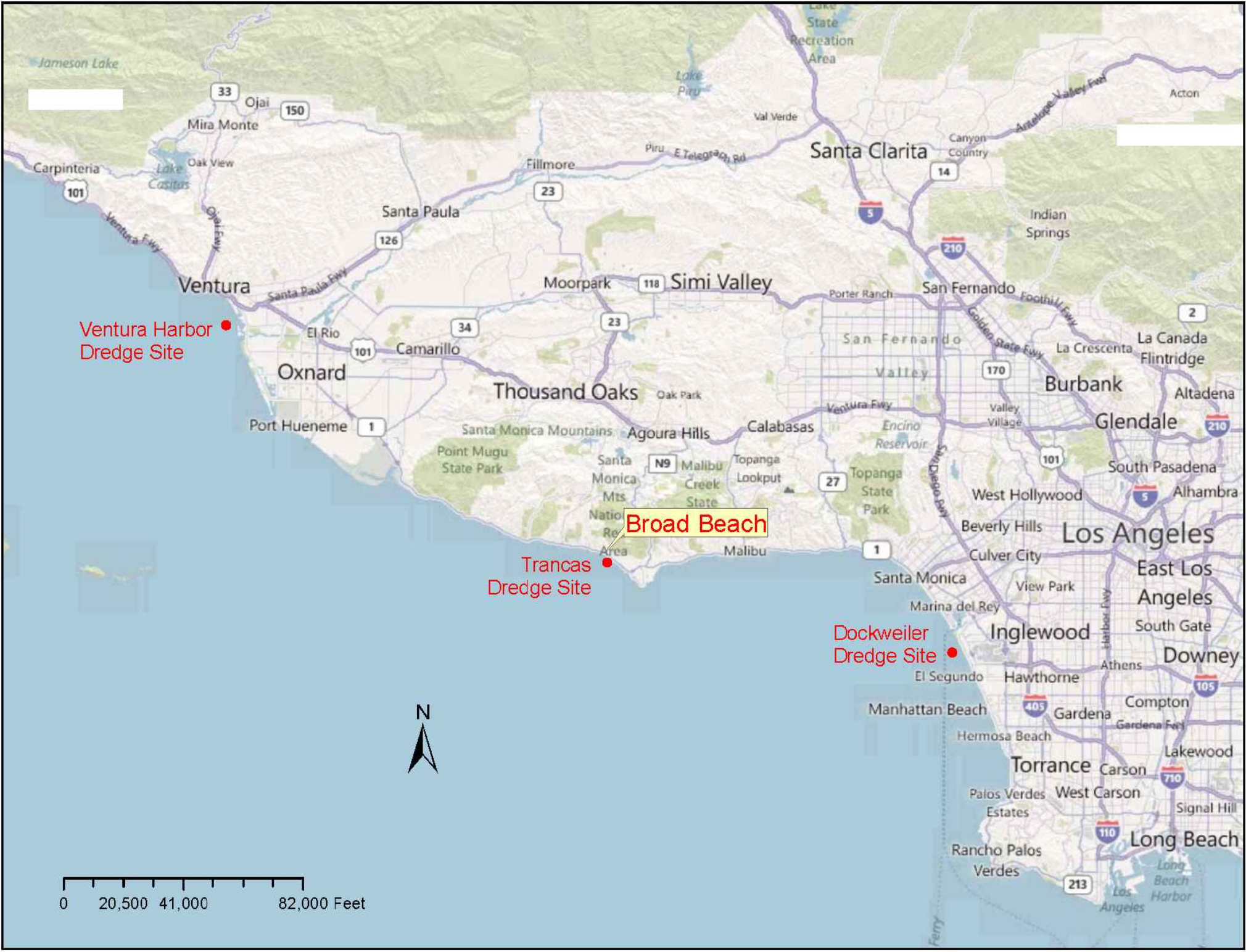
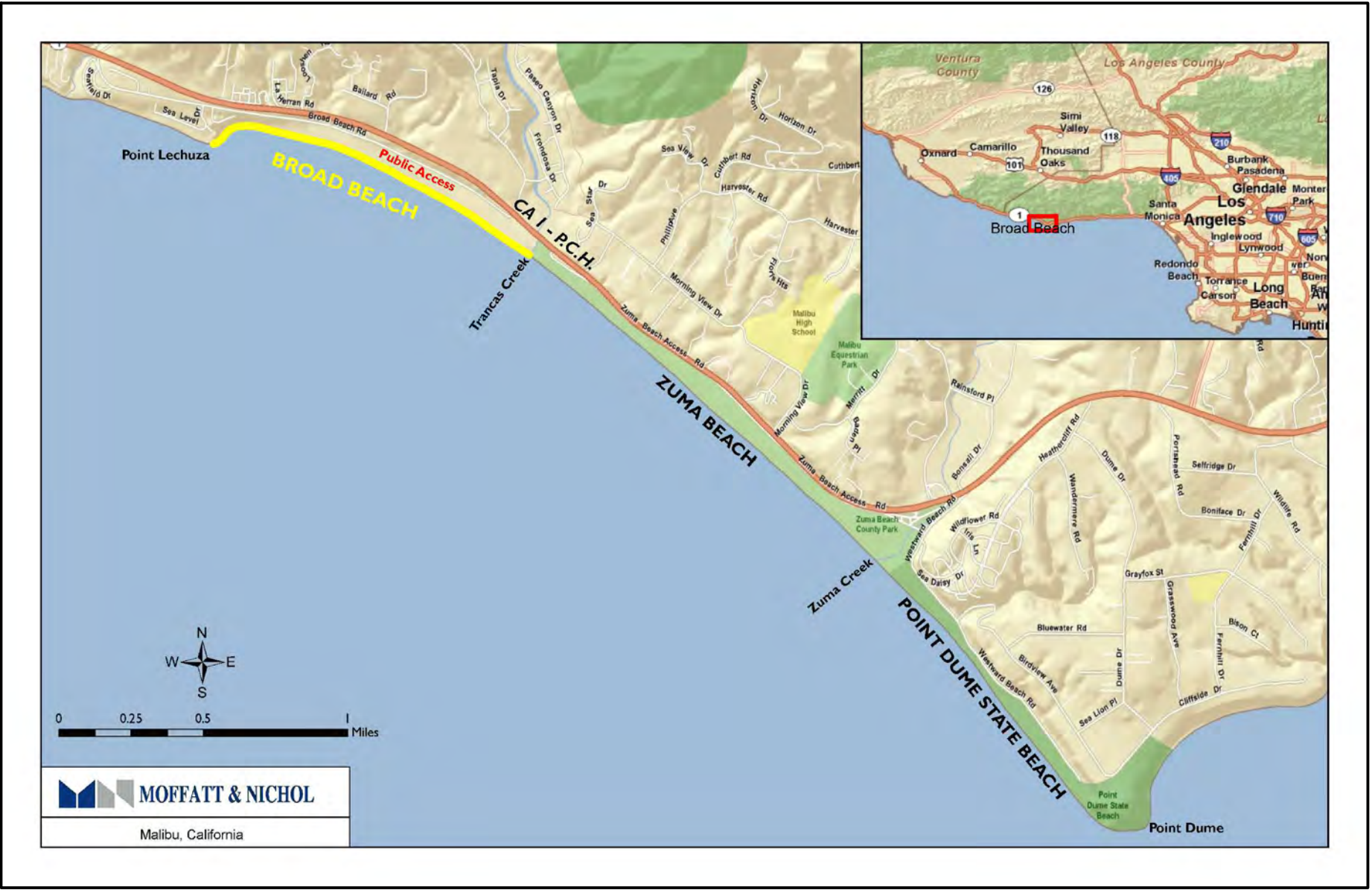


BROAD BEACH RESTORATION PROJECT

PREPARED FOR BROAD BEACH GEOLOGIC HAZARD ABATEMENT DISTRICT (B.B.G.H.A.D.)



PROJECT VICINITY MAP



BROAD BEACH VICINITY MAP



LOCATION MAP



REGION MAP
NOT TO SCALE

PROCEDURE OF SURVEY

THE HORIZONTAL DATUM WAS ESTABLISHED THROUGH STATIC GPS OBSERVATIONS. THE VERTICAL DATUM WAS ESTABLISHED UTILIZING LA COUNTY BENCHMARK Y 11394 AND TIDE STATIONS AT SANTA MONICA AND SANTA BARBARA. THE MEAN HIGH WATER ELEVATION LOCALLY (4.67 FEET) WAS DETERMINED UTILIZING THE ABOVE REFERENCED TIDE STATIONS. THE MEAN HIGH WATER LINE WAS SURVEYED AT A FIFTY—FOOT INTERVAL ON OCTOBER 15, 2009. THE TOPOGRAPHIC INFORMATION SHOWN WAS GENERATED THROUGH AERIAL PHOTOGRAMMETRIC METHODS THROUGH PHOTOGRAPHY COLLECTED ON OCTOBER 15, 2009. SURVEY PERFORMED BY KDM MERIDIAN, LAKE FOREST, CA

HORIZONTAL DATUM

BEARINGS AND COORDINATES DERIVED FROM THIS MAP OR THE DIGITAL FILE THEREOF ARE IN TERMS OF THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE V (2000.35 EPOCH). ANY DISTANCES CALCULATED THEREFROM ARE GRID. TO OBTAIN GROUND DISTANCE, DIVIDE GRID DISTANCE BY THE COMBINATION FACTOR OF 1.00000597

VERTICAL DATUM

ALL ELEVATIONS SHOWN HEREON ARE IN TERMS OF MEAN LOWER LOW WATER (MLLW), TIDAL EPOCH 1983–2001.

DESIGN TEAM:

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DIVISION OF LAND MANAGEMENT
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SACRAMENTO, CA 95825-8202

LEAD AGENCY CONTACTS:

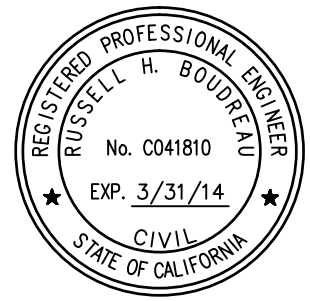
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NO.	REVISION	BY	DATE



DESIGNED BY	Aaron Holloway, P.E.	CHECKED BY	Chris Webb
DRAWN BY	S. Salazar	IN CHARGE	Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT
California State Lands Commission

TITLE SHEET, VICINITY MAP,
LOCATION MAP

SCALE	NONE	DATE	OCT. 2013
JOB NO.	6935-02		
SHEET	1 OF 42		
	T-1		

GENERAL NOTES:

1.

CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2006 EDITION EXCEPT AS MODIFIED ON THE PLANS OR IN SPECIAL PROVISIONS.
2.

THESE IMPROVEMENTS CONSIST OF WORK CALLED FOR ON THESE PLANS ONLY.
3.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE STARTING WORK.
4.

THE ENGINEER DOES NOT WARRANT THE ACCURACY OF SCALED DIMENSIONS ON ANY PLAN. ALL DIMENSIONS SHALL BE AS DESIGNATED ON THE PLANS.
5.

THE CONTRACTOR SHALL PROTECT ALL PUBLIC AND PRIVATE PROPERTY DURING THE PERFORMANCE OF WORK DONE UNDER THE CONTRACT. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO AVOID ANY DAMAGE TO ANY STRUCTURES ADJACENT TO THE PROJECT BOUNDARIES. THE CONTRACTOR SHALL ALSO PROVIDE FOR THE PROTECTION OF THE PUBLIC USING THE BEACH. PHOTOS OF BEFORE AND AFTER PROJECT CONDITIONS SHALL BE TAKEN BY THE CONTRACTOR.
6.

EXISTING UTILITIES SHOWN ARE BASED ON AVAILABLE RECORDS OF PARENT UTILITY COMPANIES AND MAY NOT ACCURATELY REPRESENT THEIR ACTUAL LOCATIONS. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATIONS (VERTICAL AND HORIZONTAL) OF ALL UTILITIES IN THE FIELD OR COORDINATE SUCH INDEPENDENT VERIFICATION WITH THE PARENT UTILITY COMPANIES AND PROVIDE THE STATE WITH THE POTHOLE INFORMATION. THE CONTRACTOR SHALL PROTECT IN PLACE OR COORDINATE WITH THE PARENT COMPANY FOR THE RELOCATION OF CONFLICTING UTILITIES ENCOUNTERED DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 1-800-277-2600 TWO (2) DAYS PRIOR TO ANY EXCAVATION WORK.
7.

THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION FOR THIS PROJECT. THIS INCLUDES THE SAFETY OF ALL PERSONS AND PROPERTY AND THAT THE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE STATE OF CALIFORNIA AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FROM LIABILITY ARISING FROM THE NEGLIGENCE OF THE STATE OF CALIFORNIA OR THE ENGINEER.

ENVIRONMENTAL PROTECTION REQUIREMENTS

- A.

CONTRACTOR SHALL:

1.

PROVIDE AND MAINTAIN ENVIRONMENTAL AND PROPERTY PROTECTION AS SPECIFIED.

2.

PLAN FOR AND PROVIDE ENVIRONMENTALLY PROTECTIVE MEASURES TO CONTROL POLLUTION THAT DEVELOPS DURING NORMAL CONSTRUCTION PRACTICE AND DURING THE CONSTRUCTION OF PERMANENT OR TEMPORARY ENVIRONMENTAL FEATURES ASSOCIATED WITH THIS PROJECT.

3.

COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS PERTAINING TO THE ENVIRONMENT, INCLUDING BUT NOT LIMITED TO WATER, AIR AND NOISE POLLUTION.
- B.

PRECONSTRUCTION SURVEY

CONTRACTOR SHALL PERFORM A PRECONSTRUCTION INSPECTION AND MAKE A VIDEO RECORD OF THE PROJECT SITE AND AREAS TO BE USED BY THE CONTRACTOR, WITH THE OWNERS OR THE OWNER'S REPRESENTATIVE TO ESTABLISH THE EXISTING CONDITION OF IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALKS, CURBS AND CURBS AND GUTTERS, FENCES AND GATES, TREES AND SHRUBS, SIGNS, AND SIMILAR OBJECTS THAT ARE TO BE PROTECTED IN PLACE.
- C.

PROTECTION

CONTRACTOR SHALL PRESERVE THE NATURAL RESOURCES AND PROPERTY WITHIN THE PROJECT BOUNDARIES AND OUTSIDE THE LIMITS OF PERMANENT WORK. DAMAGED PROPERTY AND IMPROVEMENTS SHALL BE RESTORED TO AN EQUIVALENT OR IMPROVED CONDITION UPON COMPLETION OF WORK AND PRIOR TO FINAL PAYMENT, AT CONTRACTOR'S SOLE EXPENSE. CONTRACTOR'S OPERATIONS SHALL BE CONFINED TO THE SMALLEST AREAS PRACTICAL, CONSISTENT WITH THE REQUIREMENTS OF THE PROJECT.

CONTROL AND DISPOSAL OF SOLID AND SANITARY WASTES

- A.

CONTRACTOR SHALL PICK UP SOLID WASTES, AND PLACE IN CONTAINERS WHICH ARE REGULARLY EMPTIED.
- B.

CONTRACTOR SHALL HAUL RUBBISH AND DEBRIS TO AN APPROVED DISPOSAL SITE LICENSED TO ACCEPT THE TYPE OF MATERIALS BEING DISPOSED.
- C.

CONTRACTOR SHALL PROVIDE, MAINTAIN, AND REMOVE AT THE COMPLETION OF WORK, CHEMICAL TOILETS OR SIMILARLY EFFECTIVE UNITS IN SUFFICIENT QUANTITY TO PROVIDE FOR THE COMFORT AND HEALTH OF ALL PERSONS EMPLOYED IN THE WORK.
- D.

THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH PERMIT REQUIREMENTS.

ABBREVIATIONS

APPROX.	APPROXIMATE
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED PLASTIC PIPE
CY	CUBIC YARD
ELEV	ELEVATION
FT	FEET
GPS	GLOBAL POSITIONING SYSTEM
HORIZ	HORIZONTAL
INV	INVERT
LA	LOS ANGELES
MAX	MAXIMUM
MHHW	MEAN HIGHER HIGH WATER
MHT	MEAN HIGH TIDE
MHW	MEAN HIGH WATER
MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
MOD	MODIFIED
MSL	MEAN SEA LEVEL
NAVD88	NORTH AMERICAN VERTICAL DATUM
NO	NUMBER
NOAA/NOS	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION/NATIONAL OCEAN SERVICE
OCT	OCTOBER
OWTS	ONSITE WASTEWATER TREATMENT SYSTEM
RD	ROAD
STA	STATION
TBD	TO BE DETERMINED
TYP	TYPICAL
USA	UNITED STATES OF AMERICA
VERT	VERTICAL

INDEX OF DRAWING

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2	T-2	GENERAL NOTES, ABBREVIATIONS, INDEX OF DRAWINGS
3	CS-1	SITE PLAN
4	CS-2	CONSTRUCTION ACCESS AND STAGING PLAN
5	CS-3	TRAFFIC CONTROL PLAN
6	C-1	SHEET LAYOUT PLAN
7	C-2	BEACH FILL PLAN STA 10+00 TO STA 21+50
8	C-3	BEACH FILL PLAN STA 21+50 TO STA 32+00
9	C-4	BEACH FILL PLAN STA 32+00 TO STA 42+50
10	C-5	BEACH FILL PLAN STA 42+50 TO STA 53+00
11	C-6	BEACH FILL PLAN STA 53+00 TO STA 63+50
12	C-7	BEACH FILL PLAN STA 63+50 TO STA 74+00
13	XS-1	TYPICAL BEACH FILL SECTION STA 12+00 TO STA 23+50
14	XS-2	TYPICAL BEACH FILL SECTION STA 28+00 TO STA 43+00
15	XS-3	TYPICAL BEACH FILL SECTION STA 48+00 TO STA 67+00
16	SD-1	STORM DRAIN PLAN & PROFILE STA 30+45.64
17	SD-2	STORM DRAIN PLAN & PROFILE STA 44+21.70
18	SD-3	STORM DRAIN PLAN & PROFILE STA 47+35.62
19	SD-4	STORM DRAIN PLAN & PROFILE STA 60+44.75
20	L-1	BEACH NOURISHMENT & DUNE RESTORATION TYPICAL SECTIONS
21	L-2	BEACH NOURISHMENT & DUNE RESTORATION TYPICAL SECTIONS
22	L-3	BEACH NOURISHMENT & DUNE RESTORATION TYPICAL SECTIONS
23	L-4	DUNE RESTORATION PLANTING SEEDING & PLANTING PLAN
24	L-5	TYPICAL DUNE HUMMOCK GRADING & PLANTING PLAN
25	L-6	TYPICAL DUNE HUMMOCK GRADING & PLANTING PLAN
26	L-7	TYPICAL DUNE HUMMOCK GRADING & PLANTING PLAN
27	L-8	TYPICAL DUNE HUMMOCK GRADING & PLANTING PLAN
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30	MR-1	MAINTENANCE REACH AREAS FOR SAND BACKPASSING
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40	XS-4	TYPICAL RE-NOURISHMENT SECTION STA 12+00 TO STA 23+50
41	XS-5	TYPICAL RE-NOURISHMENT SECTION STA 28+00 TO STA 43+00
42	XS-6	TYPICAL RE-NOURISHMENT SECTION STA 48+00 TO STA 67+00

WATER LEVELS AT BROAD BEACH (TIDAL EPOCH 1983-2001)

WATER LEVEL	ELEVATION TO MLLW VERTICAL DATUM
EXTREME HIGH (OBSERVED JANUARY 27, 1983)	+7.8 FEET
MEAN HIGHER HIGH WATER (MHHW)	+5.5 FEET
MEAN HIGH WATER (MHW)	+4.7 FEET
MEAN SEA LEVEL (MSL), 1983-2001 EPOCH	+2.8 FEET
NATIONAL GEODETIC VERTICAL DATUM - 1929 (NGVD29)	+2.6 FEET
MEAN LOW WATER (MLW)	+0.9 FEET
NORTH AMERICAN VERTICAL DATUM - 1988 (NAVD88)	+0.2 FEET
MEAN LOWER LOW WATER (MLLW)	0.0 FEET
EXTREME LOW (OBSERVED DECEMBER 17, 1933)	-2.7

BASED ON LOS ANGELES OUTER HARBOR TIDE STATION (NOAA/NOS, 2008)

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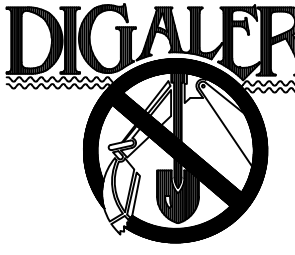
DESIGNED BY	Aaron Holloway, P.E.
CHECKED BY	Chris Webb
DRAWN BY	S. Salazar
IN CHARGE	Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT
California State Lands Commission

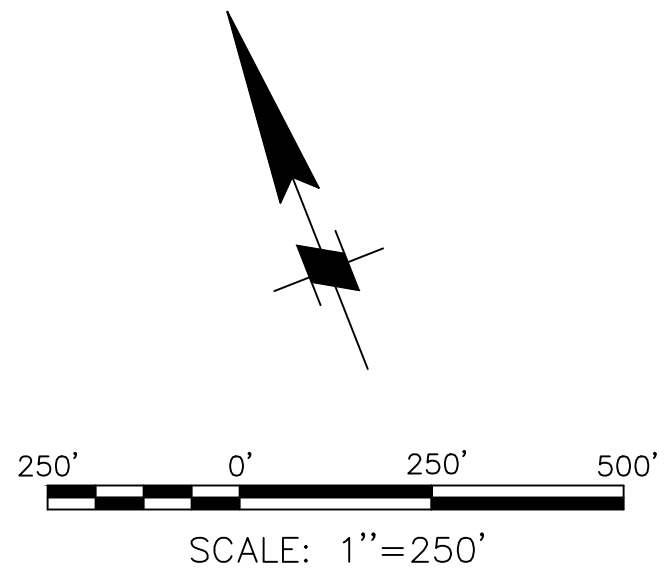
GENERAL NOTES, ABBREVIATIONS,
INDEX OF DRAWINGS

SCALE	DATE
NONE	OCT. 2013
JOB NO.	6935-02
SHEET	2 OF 42
T-2	

FINAL
100%
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0%
CONCEPT
STATUS

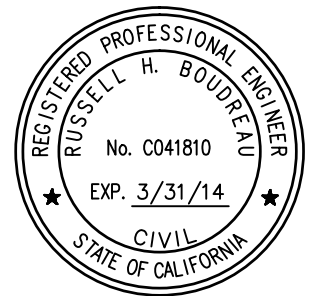



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BEFORE YOU DIG
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DRAWN BY	S. Salazar	IN CHARGE	Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT
California State Lands Commission

SITE PLAN


SCALE	DATE
1"=250'	OCT. 2013
JOB NO.	6935-02
SHEET	3 OF 42
CS-1	



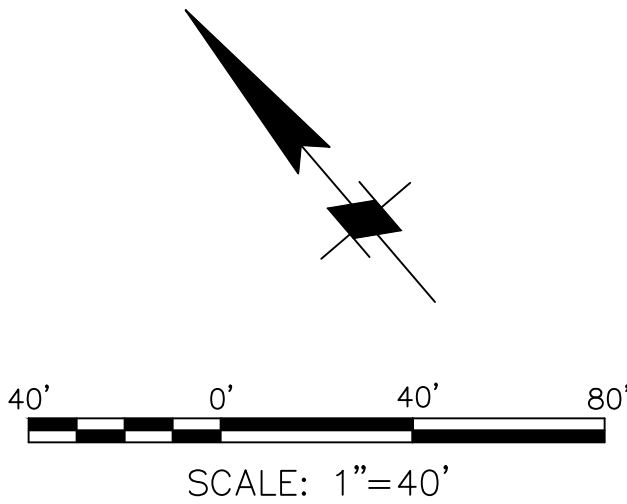


STAGING AREA #1: ZUMA COUNTY BEACH PARKING LOT #12
1"=40'

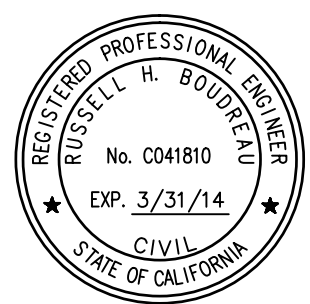
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DRAWN BY: S. Salazar	IN CHARGE: Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT California State Lands Commission	
CONSTRUCTION ACCESS AND STAGING PLAN	

SCALE	DATE
1"=40'	OCT. 2013
JOB NO.	6935-02
SHEET	4 OF 42
CS-2	

REGISTERED CIVIL ENGINEER (Date)

REGISTERED PROFESSIONAL ENGINEER

DAVID S. SHENDER

No. C45324

Exp. 09/30/14

CIVIL

STATE OF CALIFORNIA

PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LINSCOTT LAW & GREENSPAN engineers

TRANSPORTATION PLANNING - TRAFFIC ENGINEERING - PARKING

20091 BURBANK BLVD., SUITE G, WOODLAND HILLS, CA 91367 (818)836-8648

800 S. LAKE AVE., SUITE 500, PASADENA, CA 91106 (626)796-2322

2 EXECUTIVE CIRCLE, SUITE 250, IRVINE, CA 92614 (949)625-6174

4542 RUFFNER ST., SUITE 100, SAN DIEGO, CA 92111 (619)300-8800

RCE

NO.

DATE

GENERAL NOTES

1. ALL SIGNS, TRAFFIC CONES, BARRICADES, ETC. SHALL CONFORM TO THE LATEST EDITIONS OF STATE OF CALIFORNIA STANDARD PLANS AND SPECIFICATIONS (2010 EDITION), AND THE CALIFORNIA MUTCD (2012 EDITION).

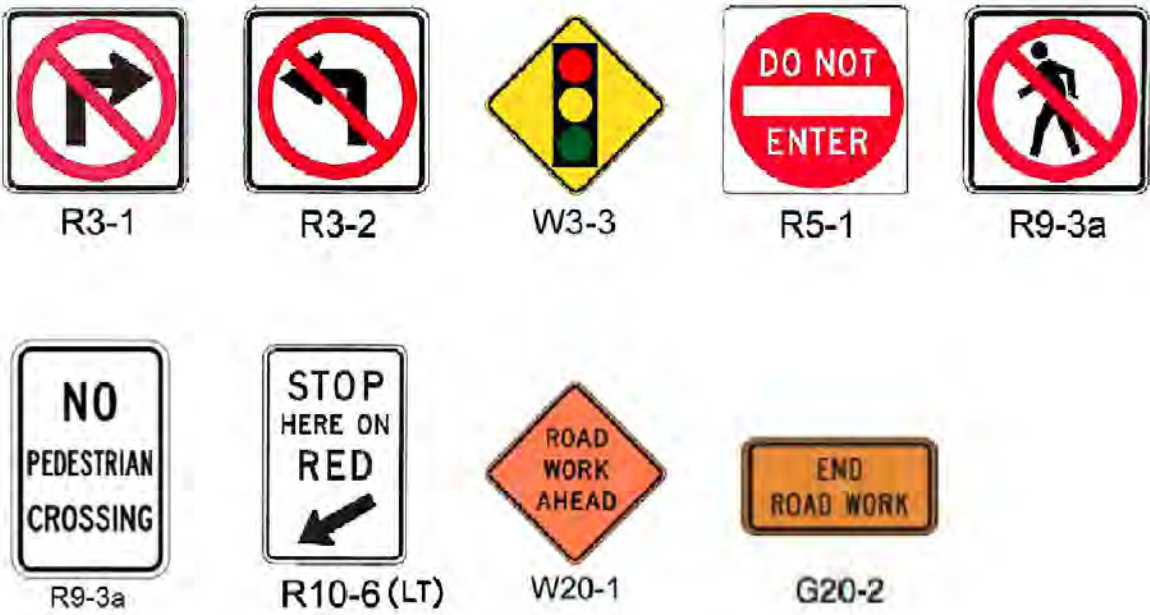
2. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN THEIR PROPER POSITION AND SHALL BE REPAIRED, REPLACED OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY.

3. CALTRANS RESERVES THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL/DETOUR PLANS IN USE AND TO MAKE ANY CHANGES NECESSITATED BY FIELD CONDITIONS. ALL SUCH CHANGES SHALL SUPERSEDE THESE PLANS AND WILL BE DONE SOLELY AT THE CONTRACTOR'S EXPENSE.

4. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES, AND RESTORE ALL PERMANENT SIGNS AND STRIPING IMPACTED BY CONSTRUCTION TO THEIR ORIGINAL CONDITION.

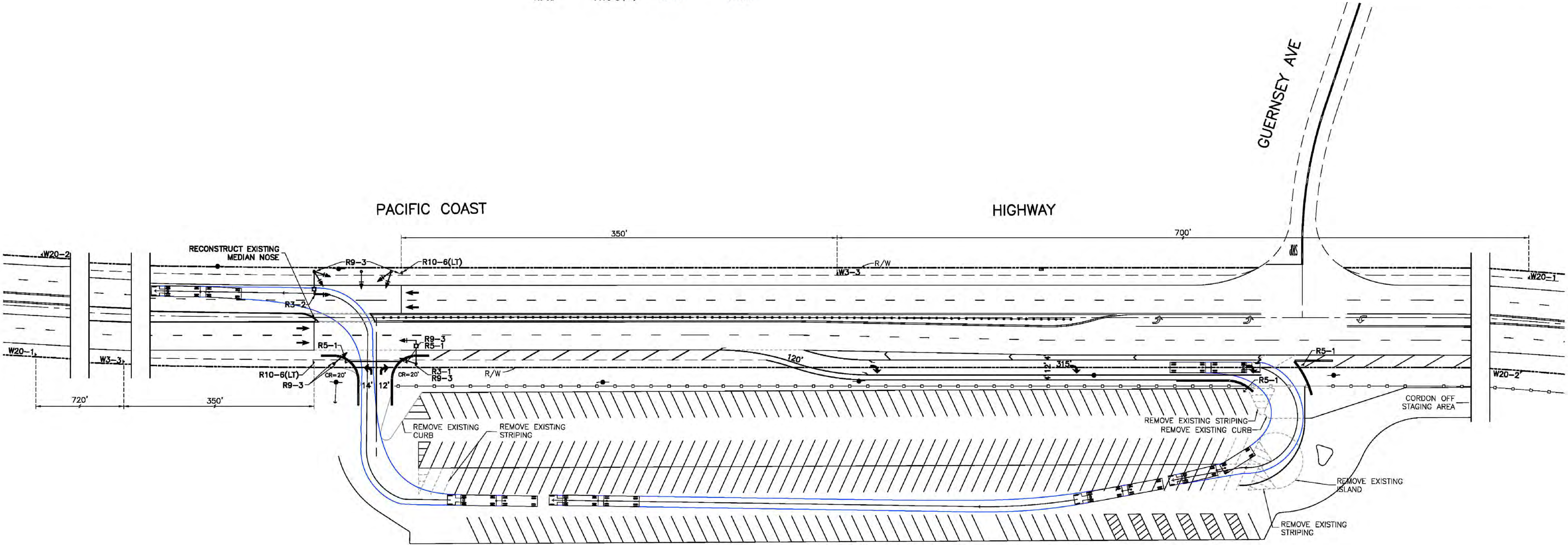
5. ONLY ONE DIRECTION OF TRAFFIC CONTROL MAY BE PLACED AT A TIME.

TEMPORARY CONSTRUCTION SIGNS



LEGEND

- PROPOSED CONSTRUCTION SIGN
- PROPOSED K-RAIL
- EXISTING TRAFFIC DELINEATOR

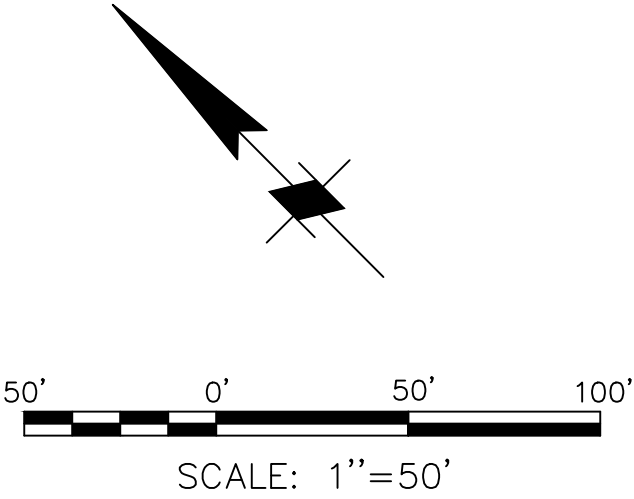


TEMPORARY SIGNING & STRIPING AND TRAFFIC SIGNAL PLAN

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AT LEAST TWO DAYS
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UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



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MOFFATT & NICHOL

DESIGNED BY Aaron Holloway, P.E.

CHECKED BY Chris Webb

DRAWN BY S. Salazar

IN CHARGE Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT

California State Lands Commission

TRAFFIC CONTROL PLAN

SCALE 1"=50'

DATE OCT. 2013

JOB NO. 6935-02

SHEET 5 OF 42

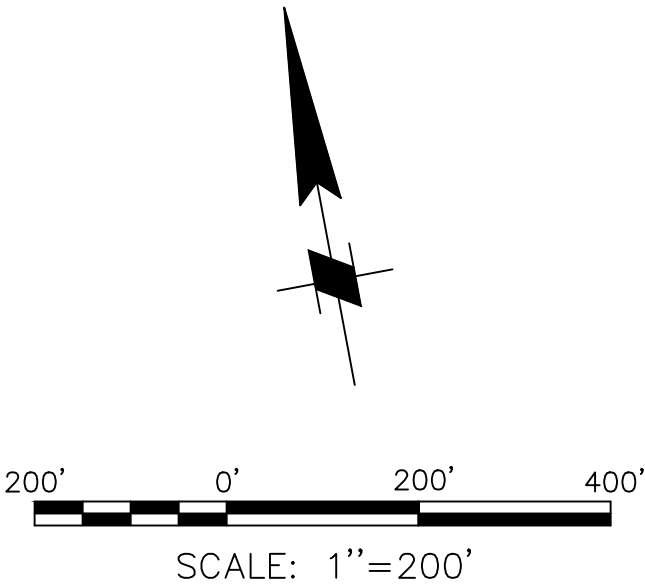
CS-3

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BROAD BEACH RESTORATION PROJECT
California State Lands Commission

SHEET LAYOUT PLAN

SCALE	DATE
1"=200'	OCT. 2013
JOB NO.	6935-02
SHEET	6 OF 42
C-1	

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



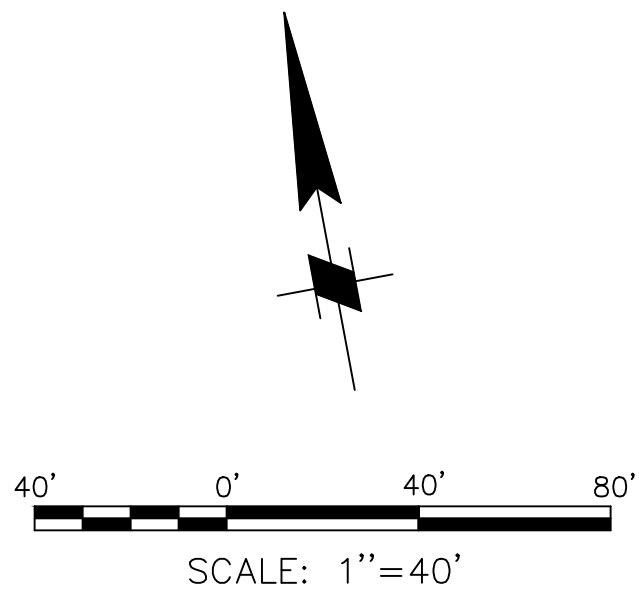
SHEET LAYOUT PLAN
1"=200'

P:\6935 Broad Beach\Design Information\CADD\Active\Sheets\693502_C-1.dwg Oct 28, 2013 11:35am

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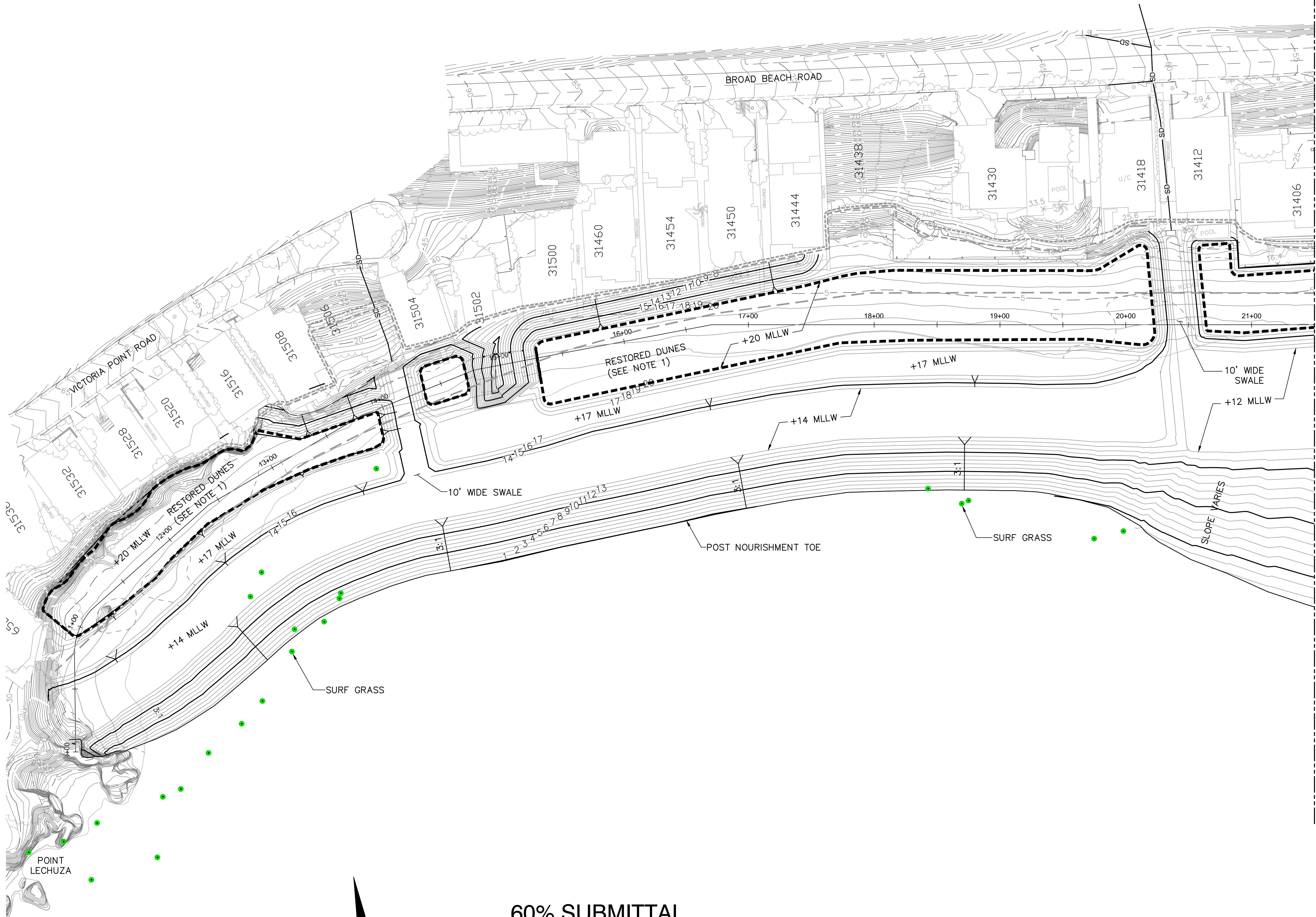
NO.	REVISION	BY	DATE



	
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DRAWN BY: S. Salazar	IN CHARGE: Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT
California State Lands Commission
BEACH FILL PLAN
STA 10+00 TO STA 21+50

SCALE 1"=40'	DATE OCT. 2013
JOB NO. 6935-02	
SHEET 7 OF 42	
C-2	



NOTE:
FOR DUNE RESTORATION PLANS AND
DETAILS SEE SHEETS L-1 THRU L-10.

- LEGEND:**
- SD EXISTING STORM DRAIN
 - 5 EXISTING CONTOUR
 - 5 PROPOSED CONTOUR
 - STATION CONTROL LINE
 - DUNE RESTORATION FOOTPRINT
 - WAVE UPRUSH +1 YR
 - WAVE UPRUSH +5, +15 YR
 - WAVE UPRUSH +10, +20 YR

FINAL	100%	%	%
CONCEPT			
STATUS			

MATCH LINE SEE SHEET C-2
STATION 21+50



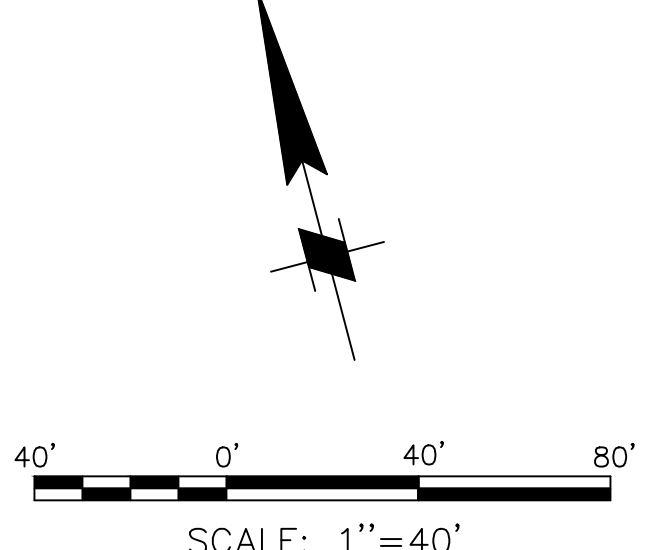
MATCH LINE SEE SHEET C-4
STATION 32+00

NOTE:
FOR DUNE RESTORATION PLANS AND
DETAILS SEE SHEETS L-1 THRU L-10.

LEGEND:

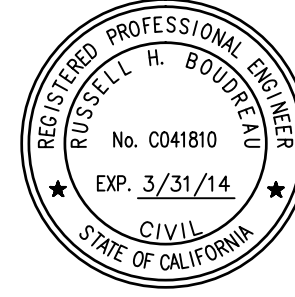
- SD EXISTING STORM DRAIN
- MODIFIED CATCH BASIN
- 5- EXISTING CONTOUR
- 5- PROPOSED CONTOUR
- EXISTING TEMPORARY REVETMENT
- 18+00 STATION CONTROL LINE
- DUNE RESTORATION FOOTPRINT
- WAVE UPRUSH +1 YR
- WAVE UPRUSH +5, +15 YR
- WAVE UPRUSH +10, +20 YR

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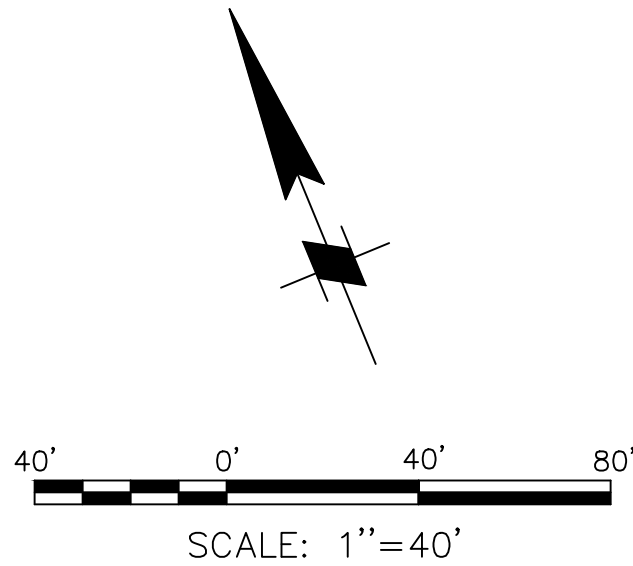
BROAD BEACH RESTORATION PROJECT
California State Lands Commission
BEACH FILL PLAN
STA 21+50 TO STA 32+00

SCALE 1"=40'	DATE OCT. 2013
JOB NO. 6935-02	
SHEET 8 OF 42	
C-3	

FINAL
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CONCEPT
STATUS

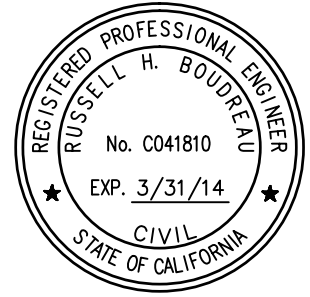



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NO.	REVISION	BY	DATE



	
DESIGNED BY: Aaron Holloway, P.E.	CHECKED BY: Chris Webb
DRAWN BY: S. Salazar	IN CHARGE: Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT California State Lands Commission	
BEACH FILL PLAN STA 32+00 TO STA 42+50	
SCALE 1"=40'	DATE OCT. 2013
JOB NO. 6935-02	
SHEET 9 OF 42	
C-4	

MATCH LINE SEE SHEET C-3
STATION 32+00

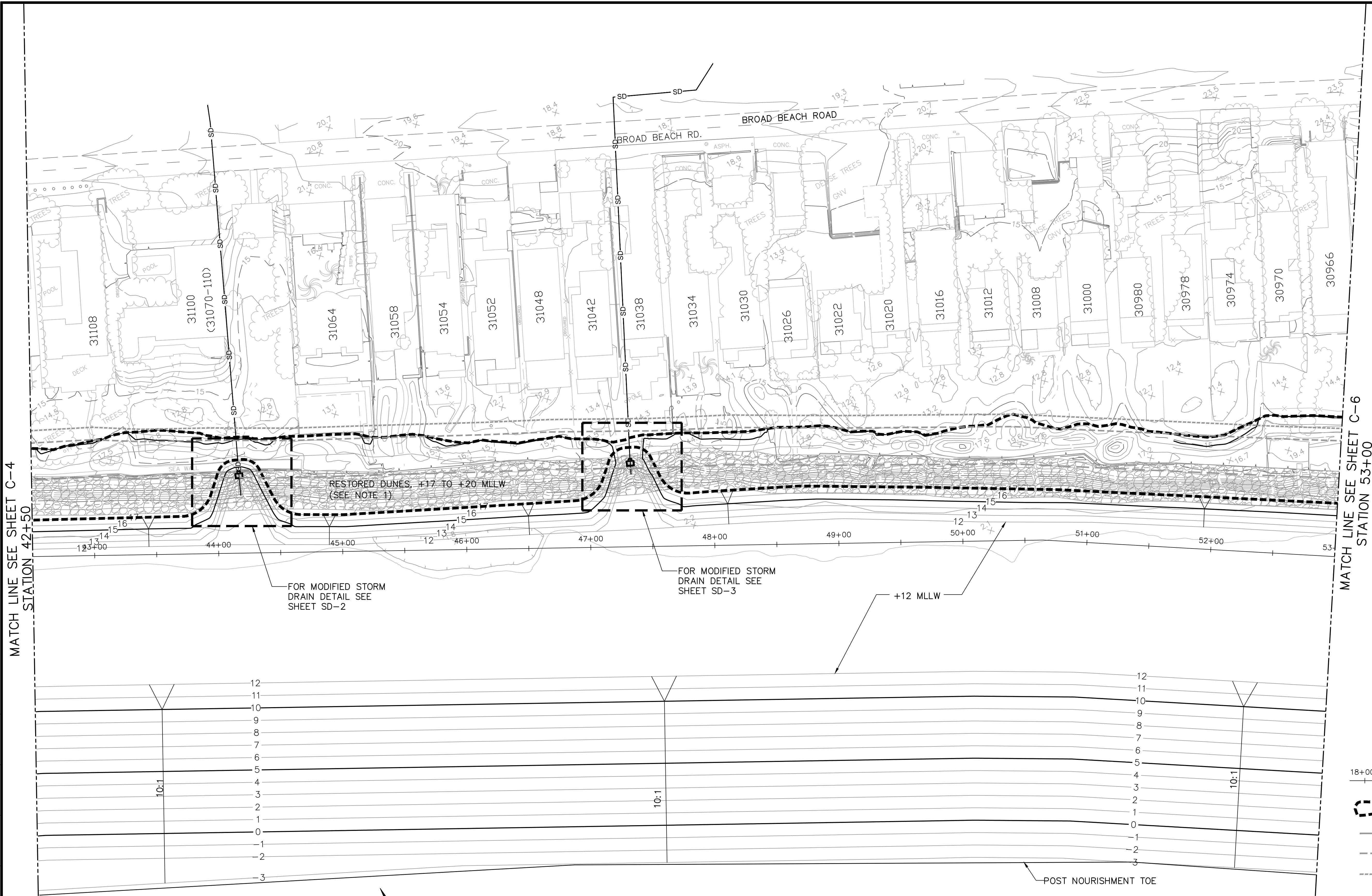


MATCH LINE SEE SHEET C-5
STATION 42+50

- LEGEND:**
- SD EXISTING STORM DRAIN
 - MODIFIED CATCH BASIN
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - EXISTING TEMPORARY REVETMENT
 - STATION CONTROL LINE
 - DUNE RESTORATION FOOTPRINT
 - WAVE UPRUSH +1 YR
 - WAVE UPRUSH +5, +15 YR
 - WAVE UPRUSH +10, +20 YR

NOTE:
FOR DUNE RESTORATION PLANS
AND DETAILS SEE SHEETS L-1
THRU L-10.

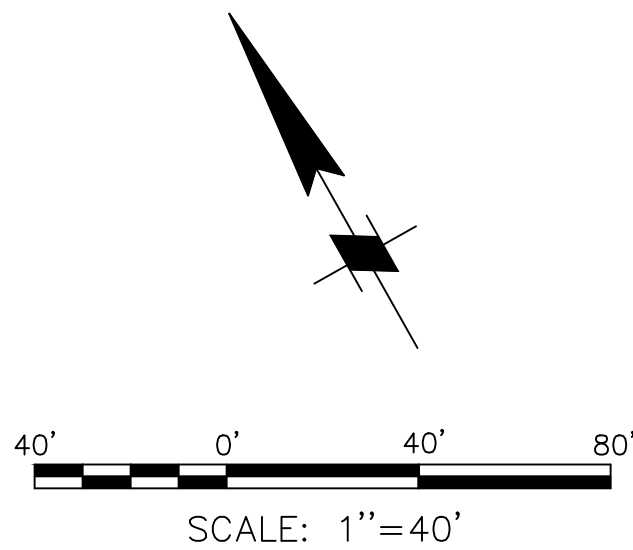
FINAL	100%	%	%
CONCEPT			
STATUS			



NOTE:
FOR DUNE RESTORATION PLANS AND
DETAILS SEE SHEETS L-1 THRU L-10.

- LEGEND:**
- SD EXISTING STORM DRAIN
 - MODIFIED CATCH BASIN
 - 5 EXISTING CONTOUR
 - 5 PROPOSED CONTOUR
 - EXISTING TEMPORARY REVETMENT
 - STATION CONTROL LINE
 - DUNE RESTORATION FOOTPRINT
 - WAVE UPRUSH +1 YR
 - WAVE UPRUSH +5, +15 YR
 - WAVE UPRUSH +10, +20 YR

DIGALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



60% SUBMITTAL

NO.	REVISION	BY	DATE



MOFFATT & NICHOL	
DESIGNED BY: Aaron Holloway, P.E.	CHECKED BY: Chris Webb
DRAWN BY: S. Salazar	IN CHARGE: Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT
California State Lands Commission
BEACH FILL PLAN
STA 42+50 TO STA 53+00

SCALE 1"=40'	DATE OCT. 2013
JOB NO. 6935-02	SHEET 10 OF 42
C-5	

STATUS	CONCEPT	100%	FINAL

MATCH LINE SEE SHEET C-5
STATION 53+00



MATCH LINE SEE SHEET C-7
STATION 63+50

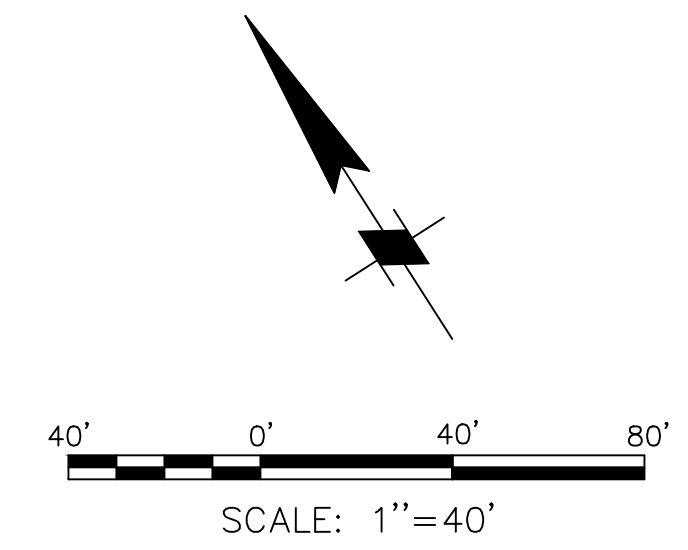
NOTE:
FOR DUNE RESTORATION PLANS AND
DETAILS SEE SHEETS L-1 THRU L-10.

LEGEND:

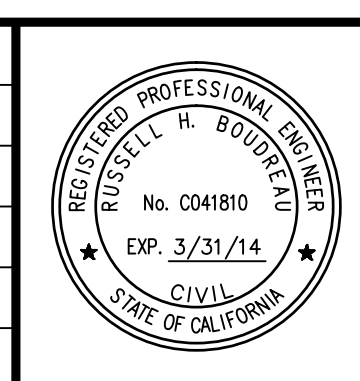
- SD EXISTING STORM DRAIN
- MODIFIED CATCH BASIN
- 5 EXISTING CONTOUR
- 5 PROPOSED CONTOUR
- EXISTING TEMPORARY REVETMENT
- 18+00 STATION CONTROL LINE
- DUNE RESTORATION FOOTPRINT
- WAVE UPRUSH +1 YR
- WAVE UPRUSH +5, +15 YR
- WAVE UPRUSH +10, +20 YR

60% SUBMITTAL

DIGALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



NO.	REVISION	BY	DATE




DESIGNED BY: Aaron Holloway, P.E.		CHECKED BY: Chris Webb	
DRAWN BY: S. Salazar		IN CHARGE: Russell Boudreau, P.E.	

MOFFATT & NICHOL

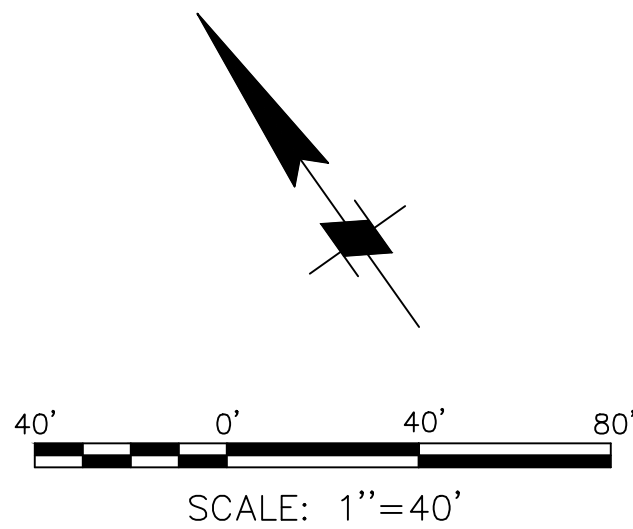
BROAD BEACH RESTORATION PROJECT
California State Lands Commission
BEACH FILL PLAN
STA 53+00 TO STA 63+50

SCALE 1"=40'	DATE OCT. 2013
JOB NO. 6935-02	
SHEET 11 OF 42	
C-6	

FINAL
100%
%
%
CONCEPT
STATUS




DIALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



60% SUBMITTAL

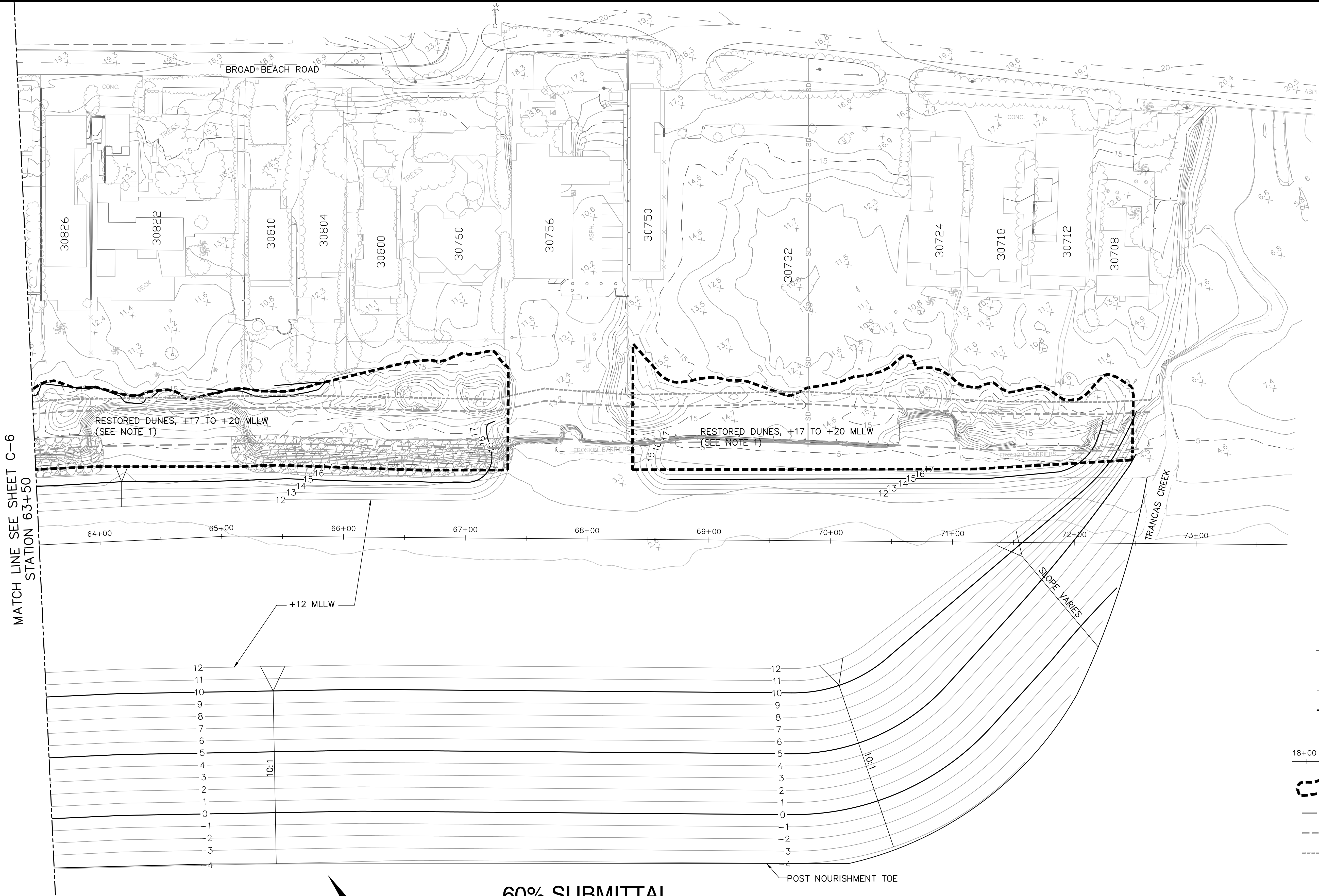
NO.	REVISION	BY	DATE



	
DESIGNED BY: Aaron Holloway, P.E.	CHECKED BY: Chris Webb
DRAWN BY: S. Salazar	IN CHARGE: Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT California State Lands Commission	
BEACH FILL PLAN STA 63+50 TO STA 74+00	
SCALE 1"=40'	DATE OCT. 2013
JOB NO. 6935-02	
SHEET 12 OF 42	
C-7	

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING




NOTE:
FOR DUNE RESTORATION PLANS AND
DETAILS SEE SHEETS L-1 THRU L-10.

- LEGEND:
- SD EXISTING STORM DRAIN
 - MODIFIED CATCH BASIN
 - 5 EXISTING CONTOUR
 - 5 PROPOSED CONTOUR
 - EXISTING TEMPORARY REVETMENT
 - STATION CONTROL LINE
 - DUNE RESTORATION FOOTPRINT
 - WAVE UPRUSH +1 YR
 - WAVE UPRUSH +5, +15 YR
 - WAVE UPRUSH +10, +20 YR

P:\6935 Broad Beach\Design Information\CADD\Sheets\693502_C-7.dwg, Oct 28, 2013 - 11:51am

FINAL
100%
%
%
CONCEPT
STATUS




DIALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

60% SUBMITTAL

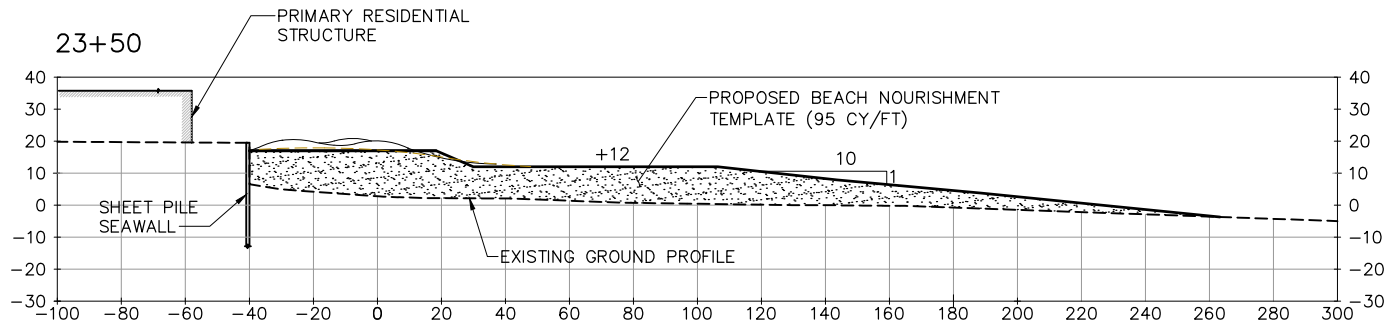
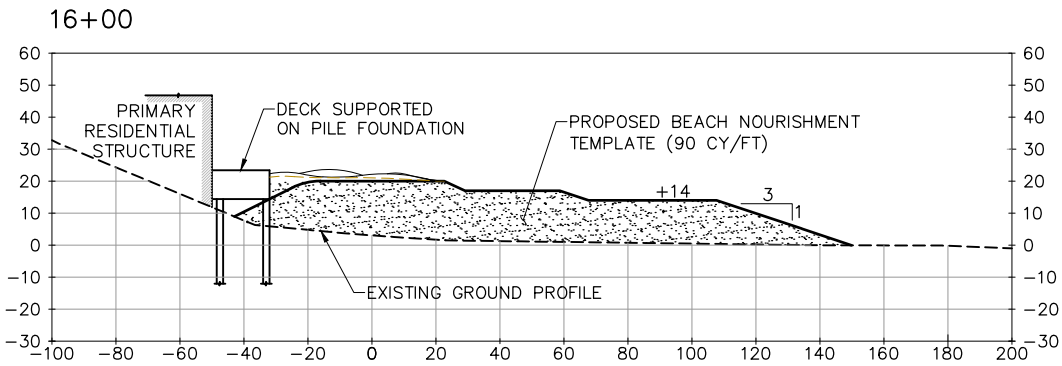
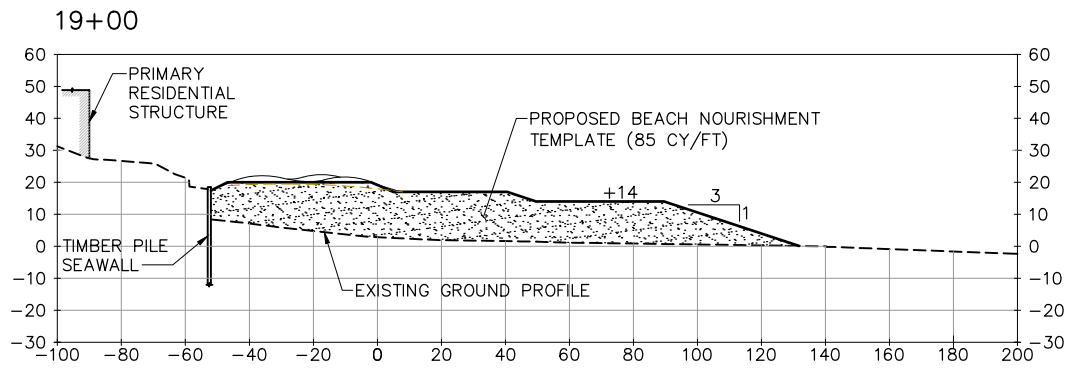
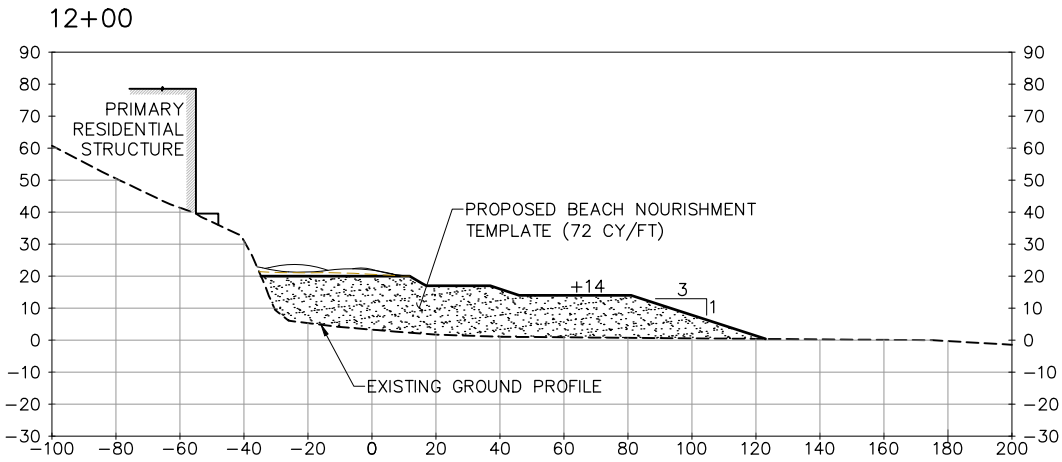
NO.	REVISION	BY	DATE



	
DESIGNED BY Aaron Holloway, P.E.	CHECKED BY Chris Webb
DRAWN BY S. Salazar	IN CHARGE Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT California State Lands Commission TYPICAL BEACH FILL SECTIONS STA 12+00 TO STA 23+50	
XS-1	

SCALE 1"=30'	DATE OCT. 2013
JOB NO. 6935-02	
SHEET 13 OF 42	






DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

60% SUBMITTAL

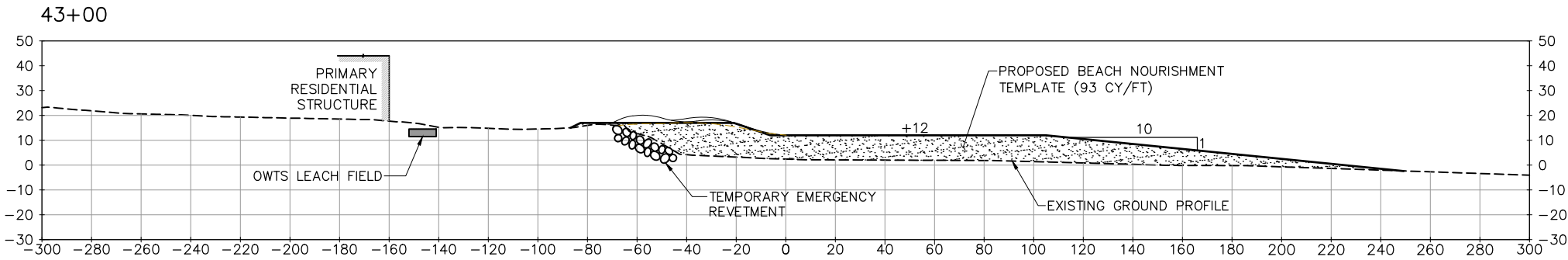
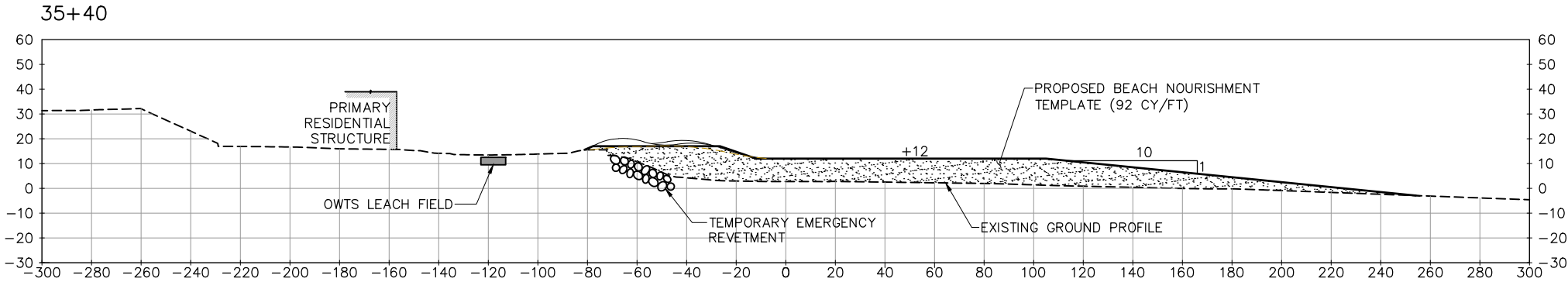
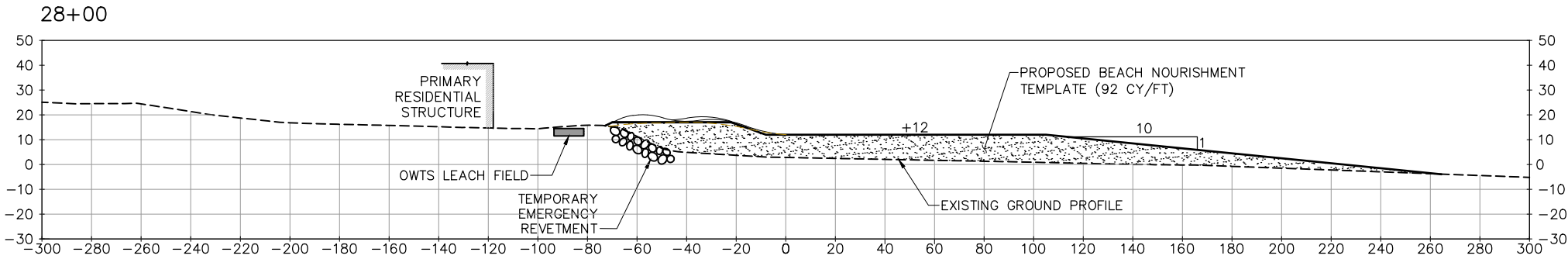
NO.	REVISION	BY	DATE



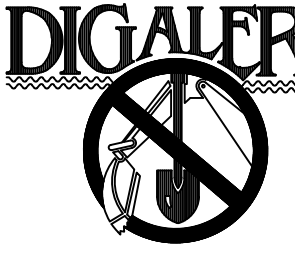
	
DESIGNED BY	Aaron Holloway, P.E.
CHECKED BY	Chris Webb
DRAWN BY	S. Salazar
IN CHARGE	Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT	
California State Lands Commission	
TYPICAL BEACH FILL SECTIONS	
STA 28+00 TO STA 43+00	
XS-2	

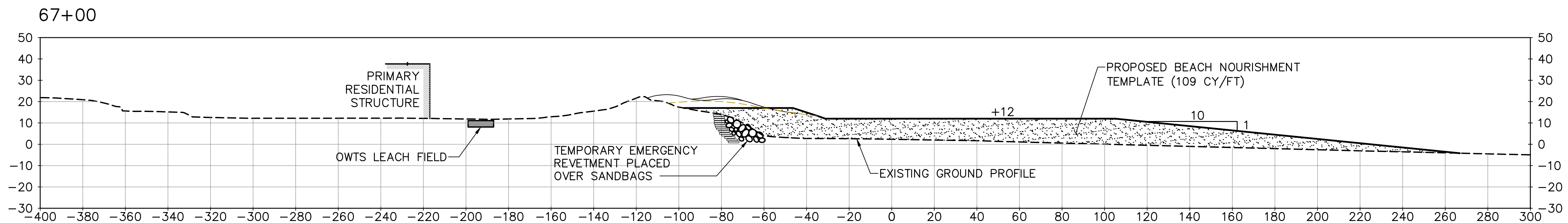
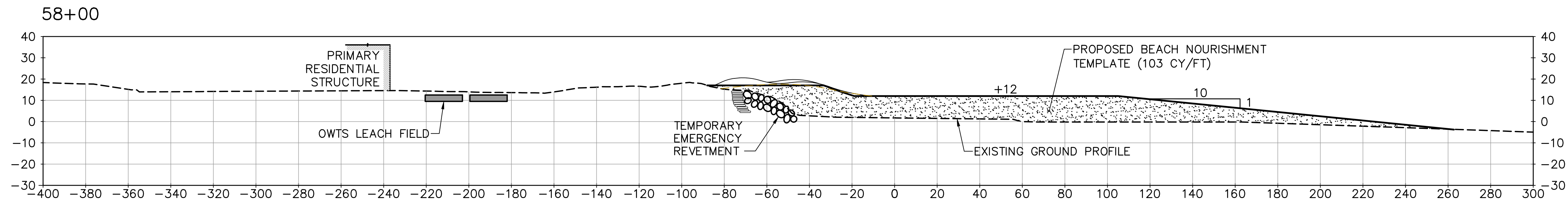
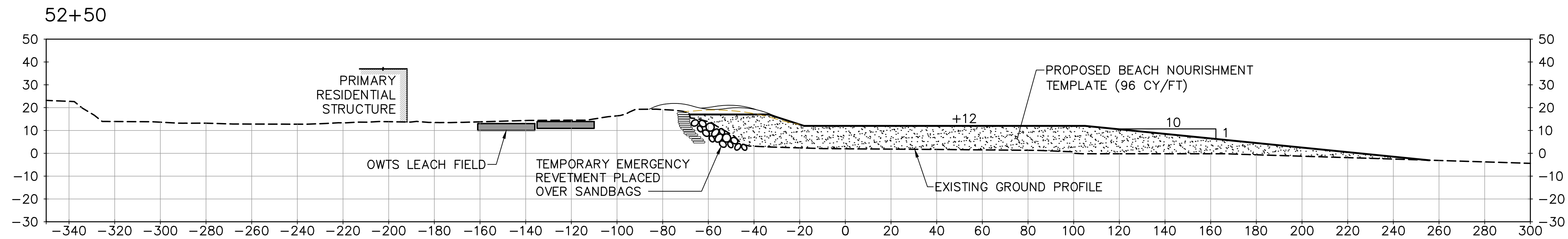
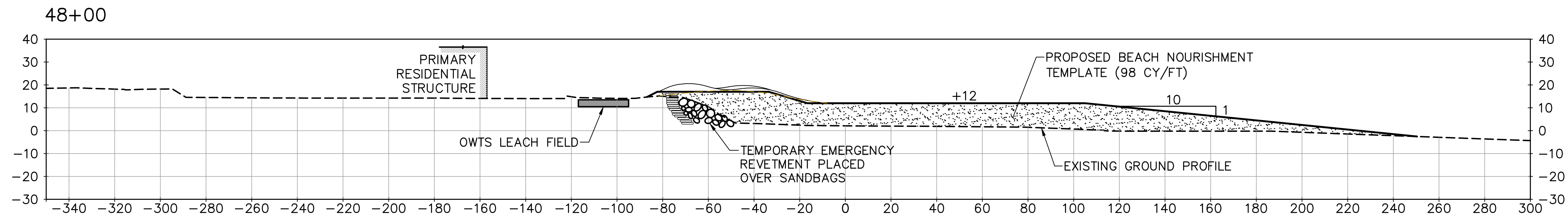
SCALE	DATE
1"=30'	OCT. 2013
JOB NO.	6935-02
SHEET	14 OF 42
XS-2	



FINAL
100%
%
%
CONCEPT
STATUS

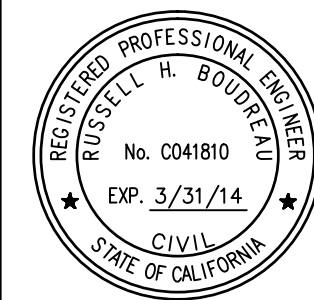


DIALERT
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1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



60% SUBMITTAL

NO.	REVISION	BY	DATE

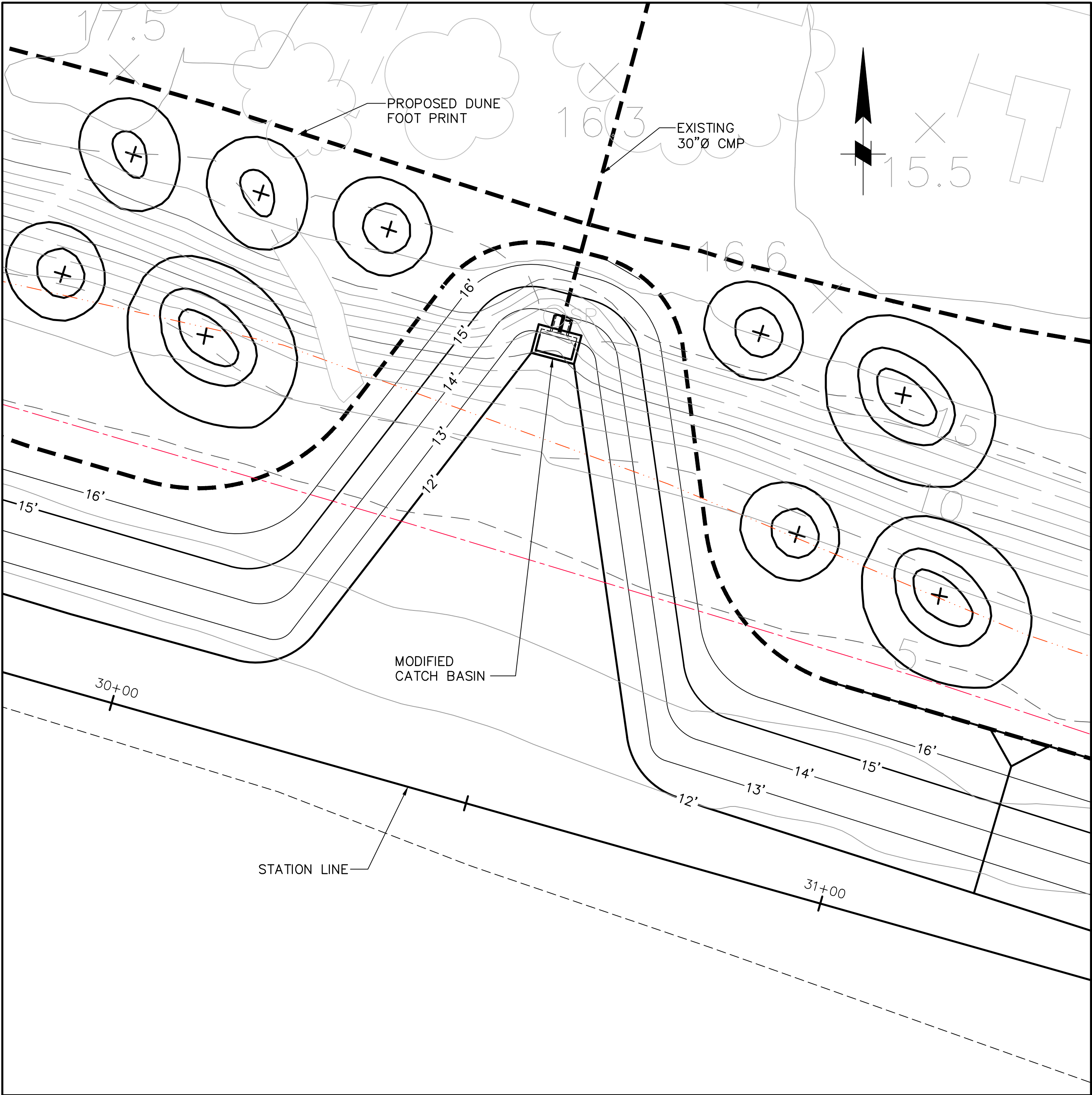


DESIGNED BY	Aaron Holloway, P.E.	CHECKED BY	Chris Webb
DRAWN BY	S. Salazar	IN CHARGE	Russell Boudreau, P.E.

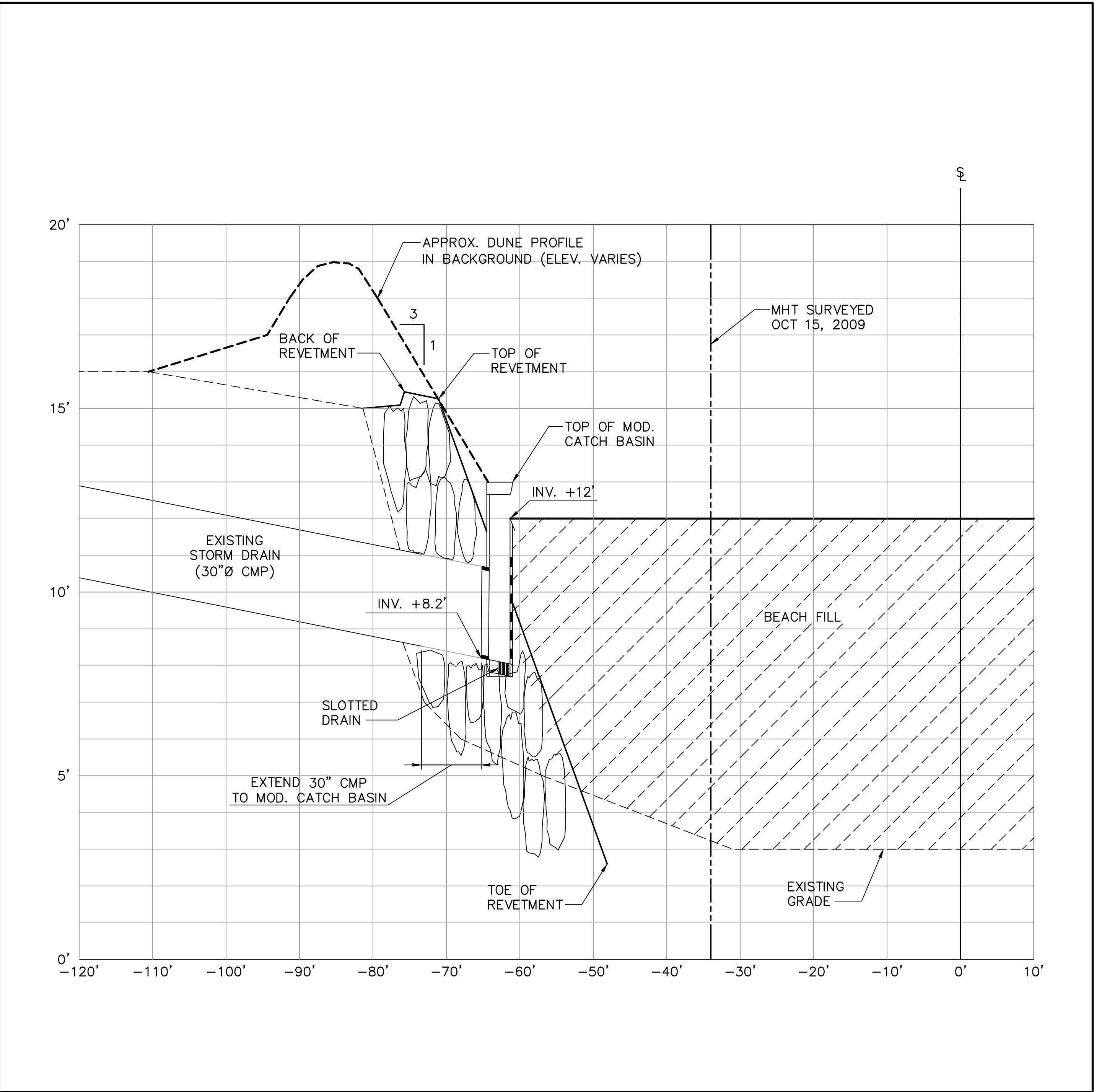
BROAD BEACH RESTORATION PROJECT
California State Lands Commission
TYPICAL BEACH FILL SECTIONS
STA 48+00 TO STA 67+00

SCALE	DATE
1"=30'	OCT. 2013
JOB NO.	6935-02
SHEET	15 OF 42
	XS-3

FINAL
100%
%
%
CONCEPT
STATUS



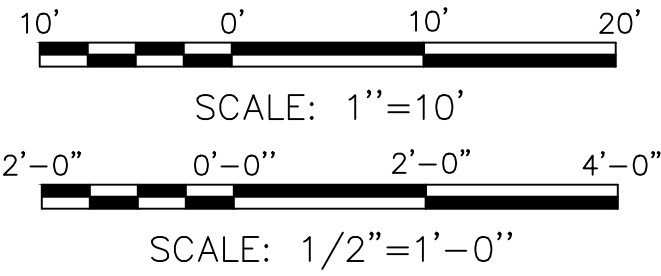
PLAN
SCALE: 1"=10'



PROFILE
SCALE: HORIZ. = 1"=10'
VERT. = 1/2"=1'-0"

NOTE:
ALL ELEVATIONS ARE IN REFERENCE TO THE MLLW DATUM.

60% SUBMITTAL



NO.	REVISION	BY	DATE



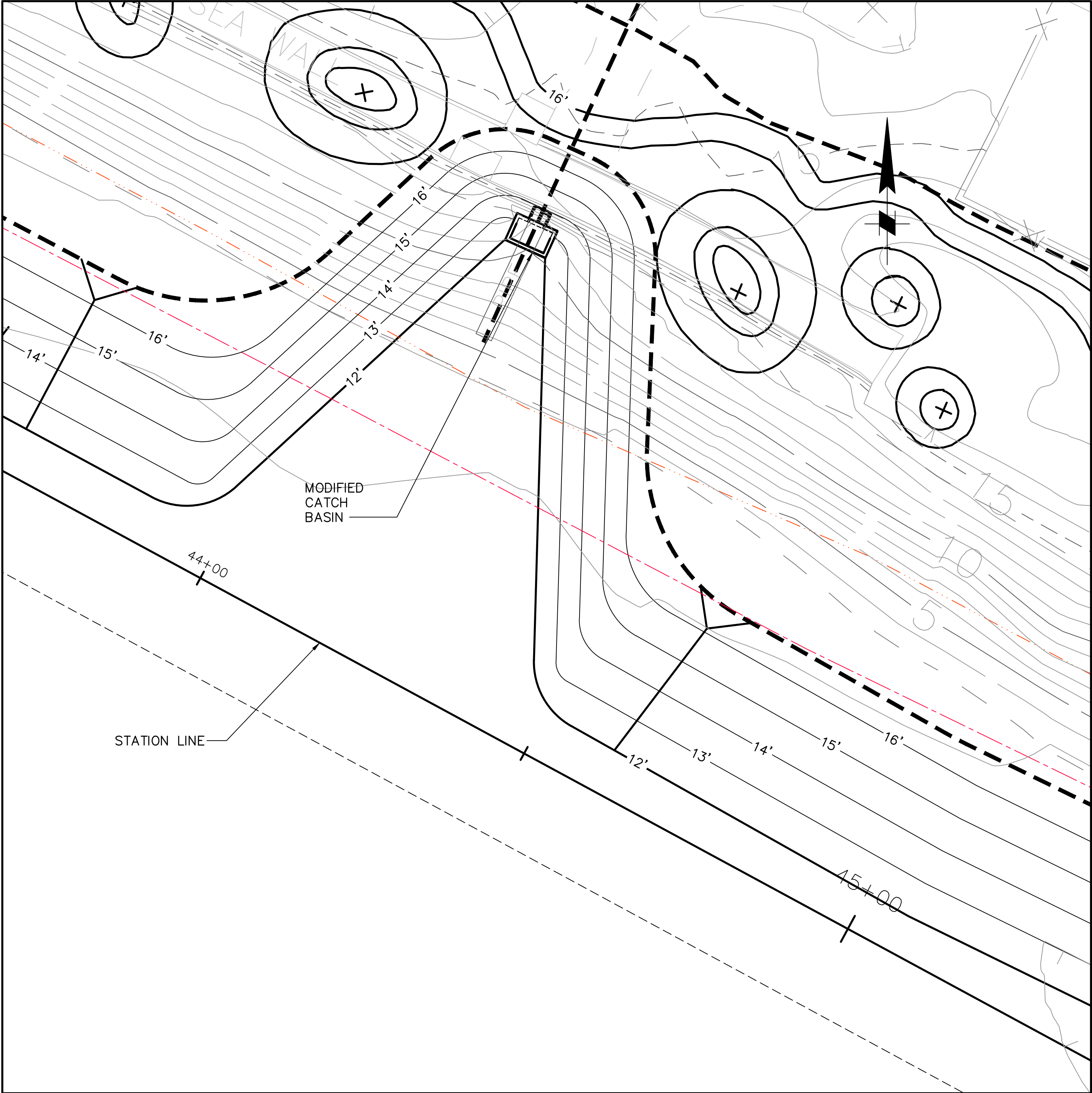
MOFFATT & NICHOL	
DESIGNED BY	Aaron Holloway, P.E.
CHECKED BY	Chris Webb
DRAWN BY	S. Salazar
IN CHARGE	Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT	
California State Lands Commission	
STORM DRAIN PLAN & PROFILE	
STA 30+45.64	
SCALE	DATE
AS SHOWN	OCT. 2013
JOB NO.	6935-02
SHEET	16 OF 42
SD-1	

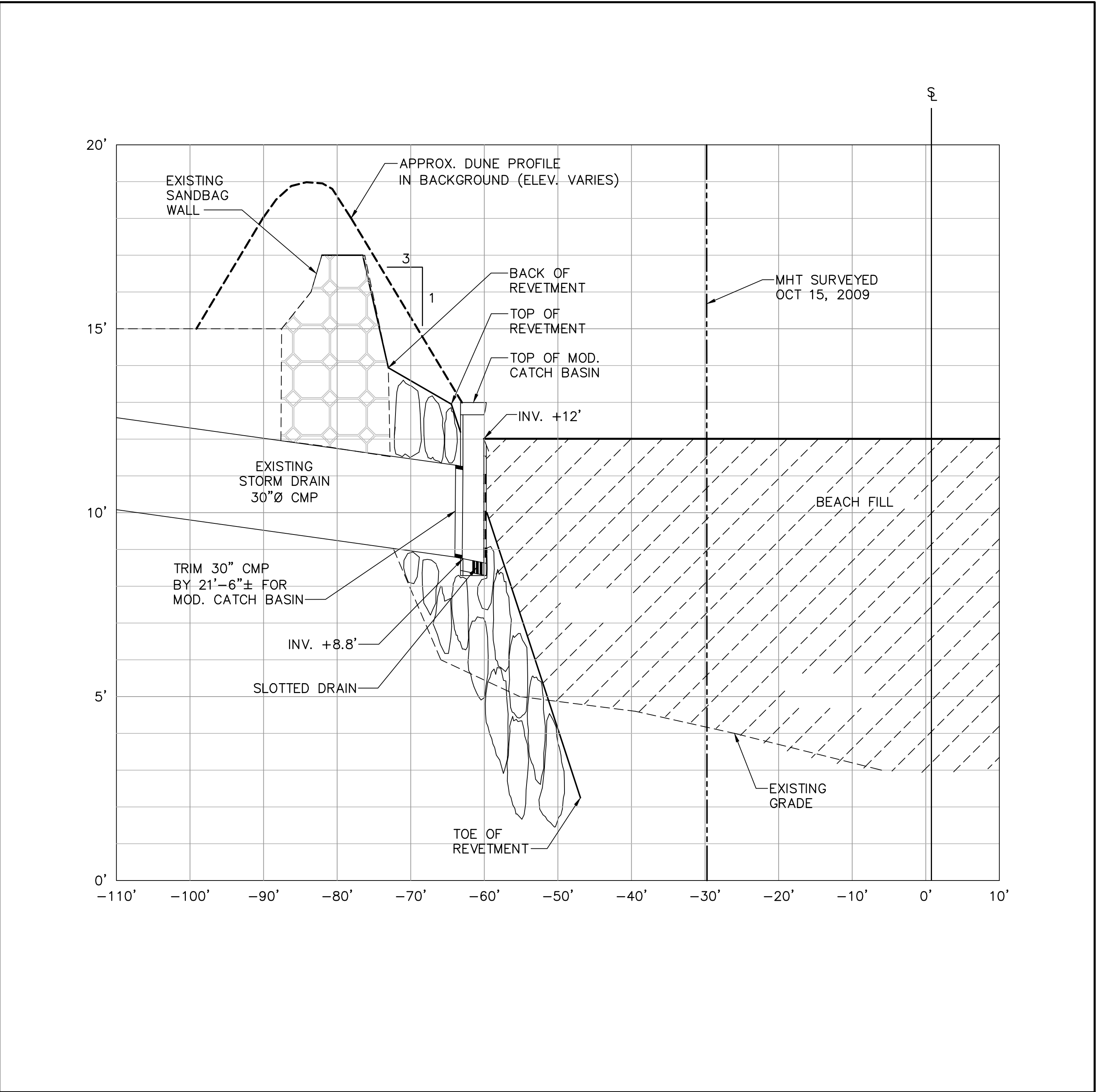
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

P:\6935 Broad Beach\7 Design Information\CADD\Active\Sheets\693502_SD-1.dwg; Oct 10, 2013 - 4:20pm;

FINAL
100%
%
%
CONCEPT
STATUS



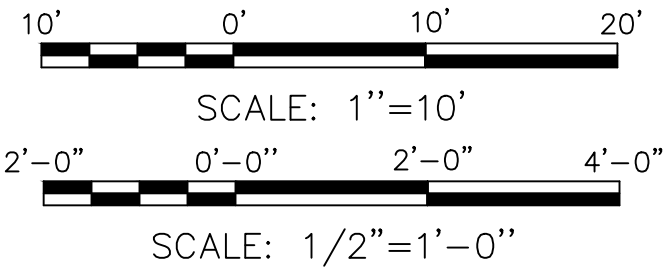
PLAN
SCALE: 1"=10'



PROFILE
SCALE: HORIZ. = 1"=10'
VERT. = 1"=2'

NOTE:
ALL ELEVATIONS ARE IN REFERENCE TO THE MLLW DATUM.

60% SUBMITTAL



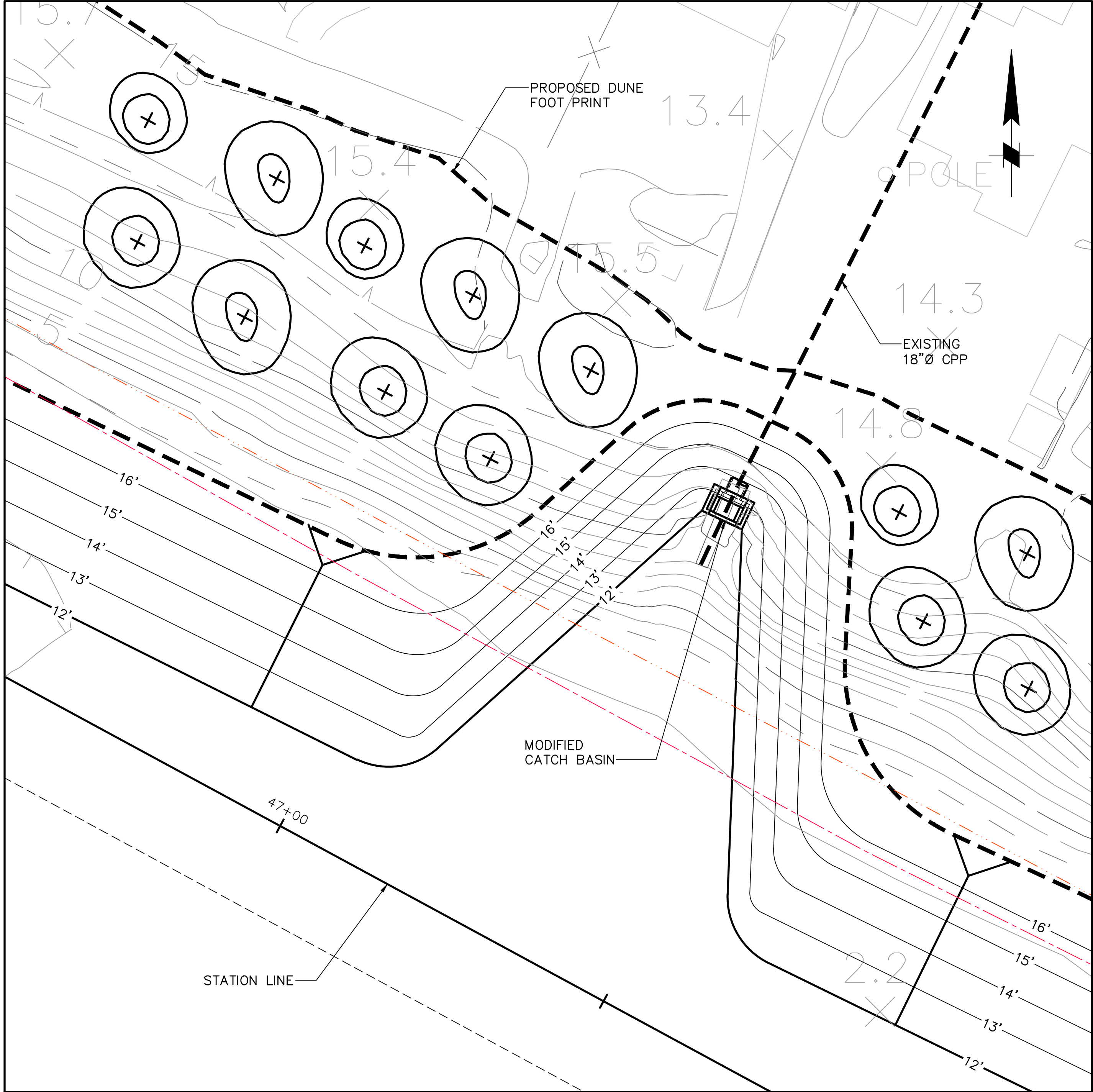
NO.	REVISION	BY	DATE



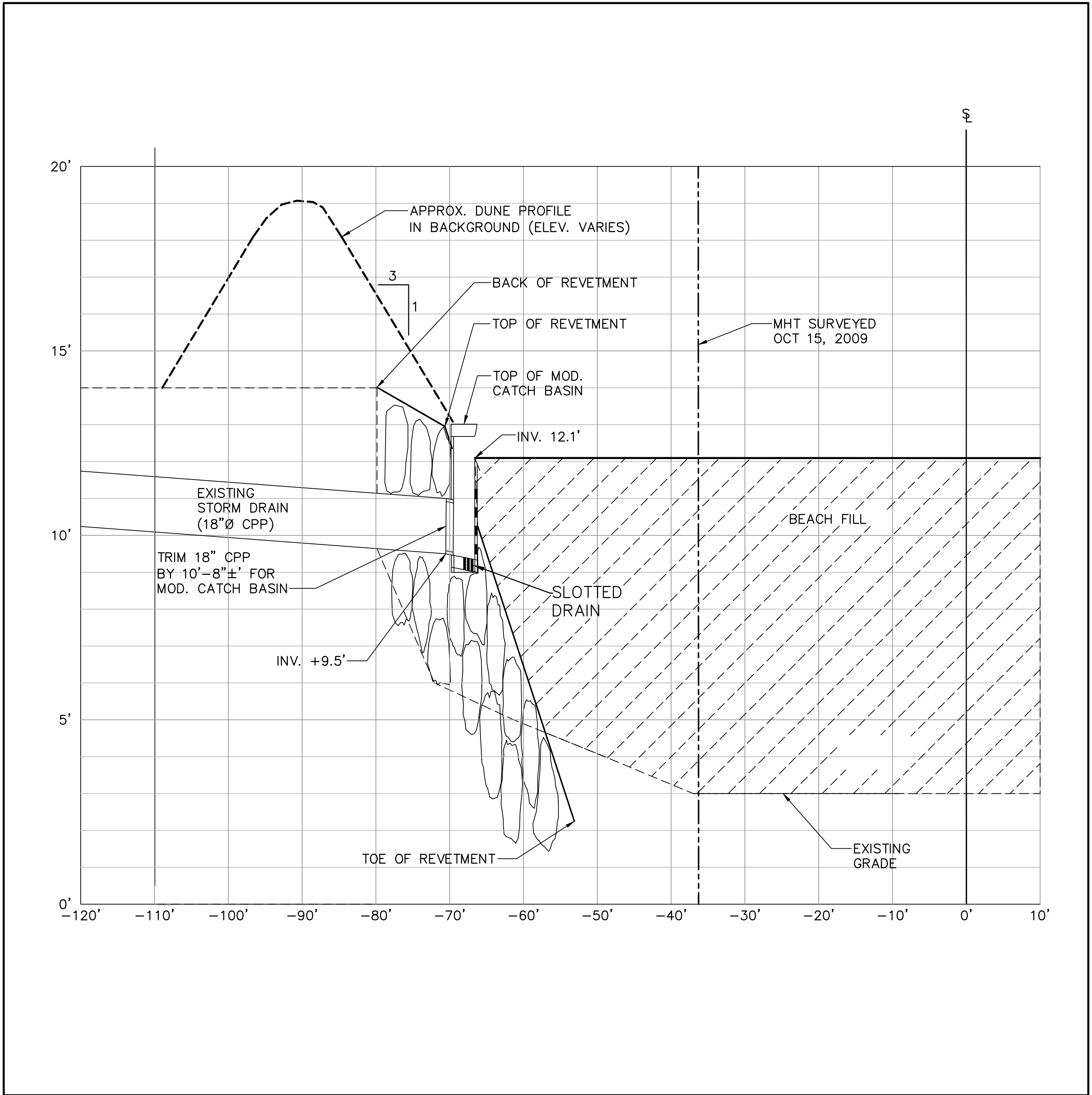
MOFFATT & NICHOL	
DESIGNED BY: Aaron Holloway, P.E.	CHECKED BY: Chris Webb
DRAWN BY: S. Salazar	IN CHARGE: Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT California State Lands Commission STORM DRAIN PLAN & PROFILE STA 44+21.70	
SCALE: AS SHOWN	DATE: OCT. 2013
JOB NO.: 6935-02	SHEET: 17 OF 42
SD-2	

FINAL
100%
%
%
CONCEPT
STATUS



PLAN
SCALE: 1"=10'

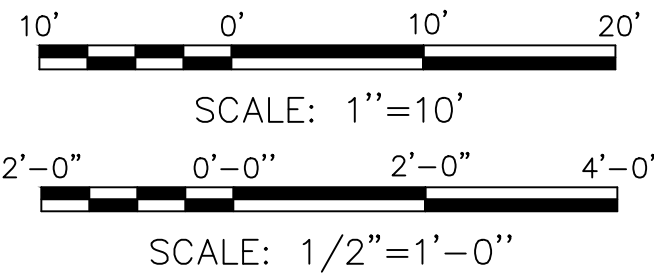


PROFILE
SCALE: HORIZ. = 1"=10'
VERT. = 1"=2'

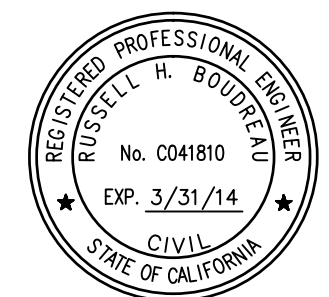
NOTE:
ALL ELEVATIONS ARE IN REFERENCE TO THE MLLW DATUM.

60% SUBMITTAL

DIGALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



NO.	REVISION	BY	DATE



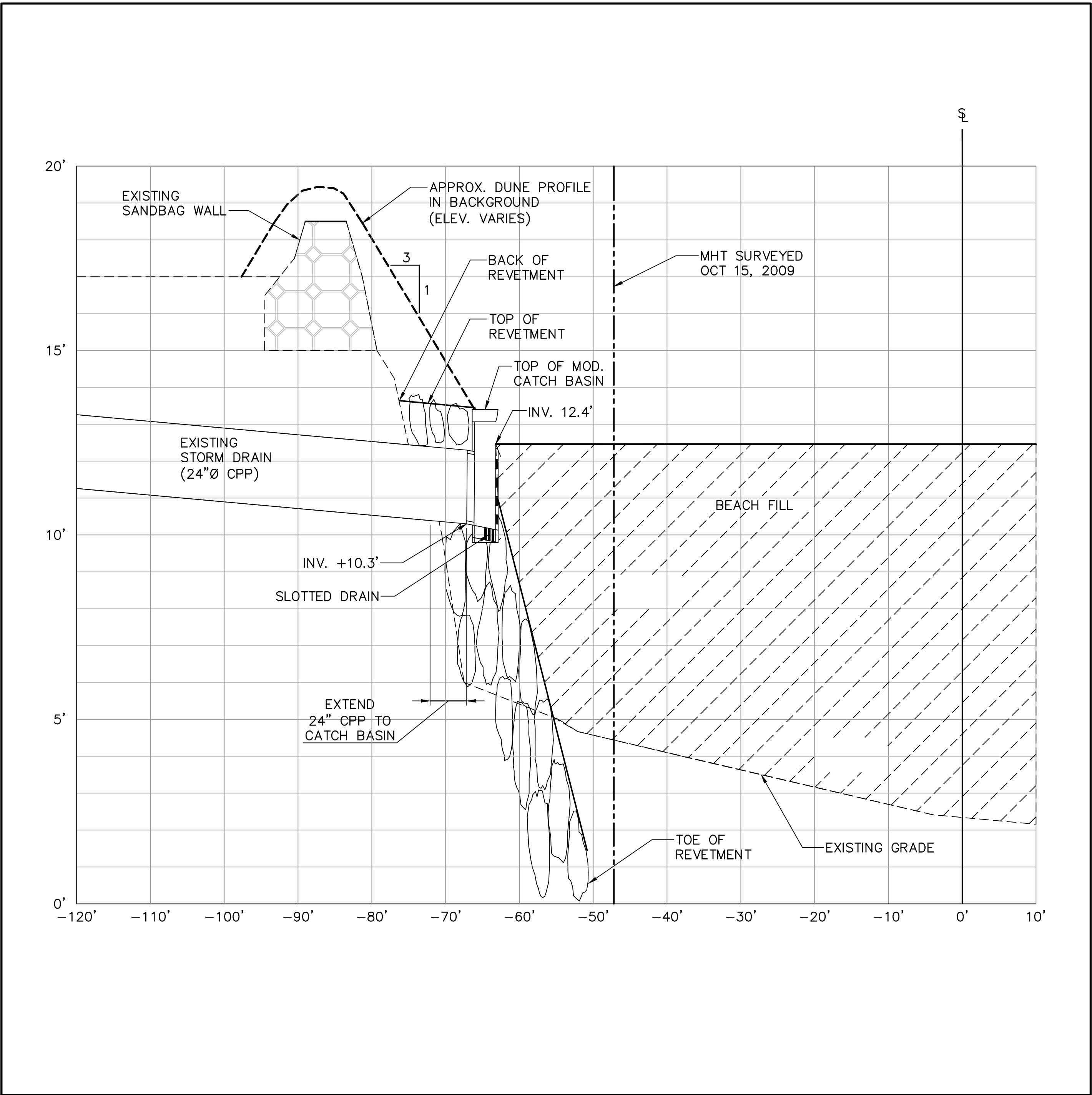
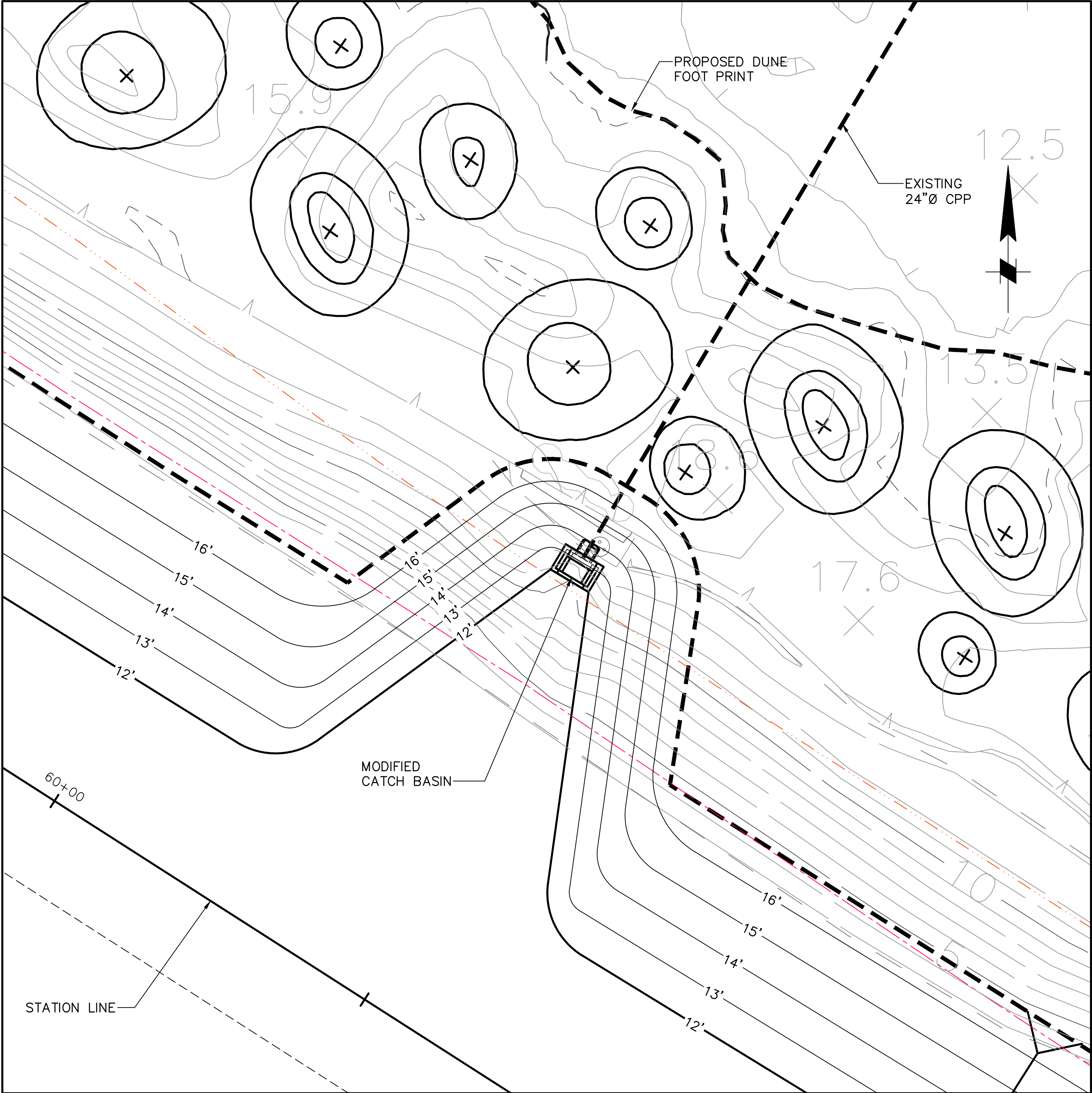
MOFFATT & NICHOL

DESIGNED BY	Aaron Holloway, P.E.	CHECKED BY	Chris Webb
DRAWN BY	S. Salazar	IN CHARGE	Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT
California State Lands Commission
STORM DRAIN PLAN & PROFILE
STA 47+35.62

SCALE	DATE
AS SHOWN	OCT. 2013
JOB NO.	6935-02
SHEET	18 OF 42
SD-3	

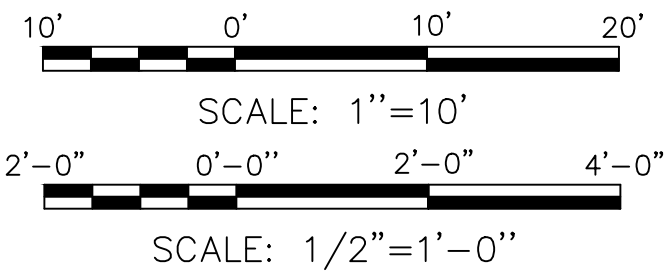
FINAL
100%
%
%
CONCEPT
STATUS



NOTE:
ALL ELEVATIONS ARE IN REFERENCE TO THE MLLW DATUM.

60% SUBMITTAL

DIGALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



NO.	REVISION	BY	DATE



MOFFATT & NICHOL

DESIGNED BY	Aaron Holloway, P.E.	CHECKED BY	Chris Webb
DRAWN BY	S. Salazar	IN CHARGE	Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT
California State Lands Commission
STORM DRAIN PLAN & PROFILE
STA 60+44.75

SCALE	DATE
AS SHOWN	OCT. 2013
JOB NO.	6935-02
SHEET	19 OF 42
SD-4	

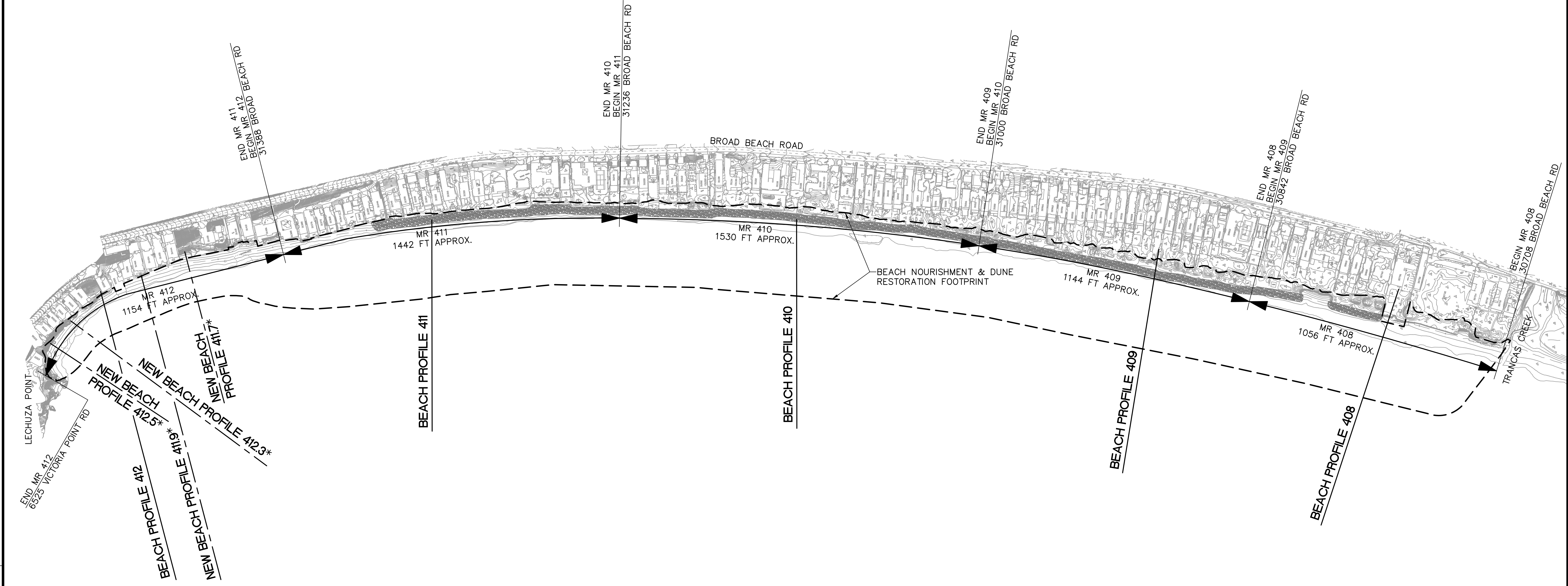
DIGALERT

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

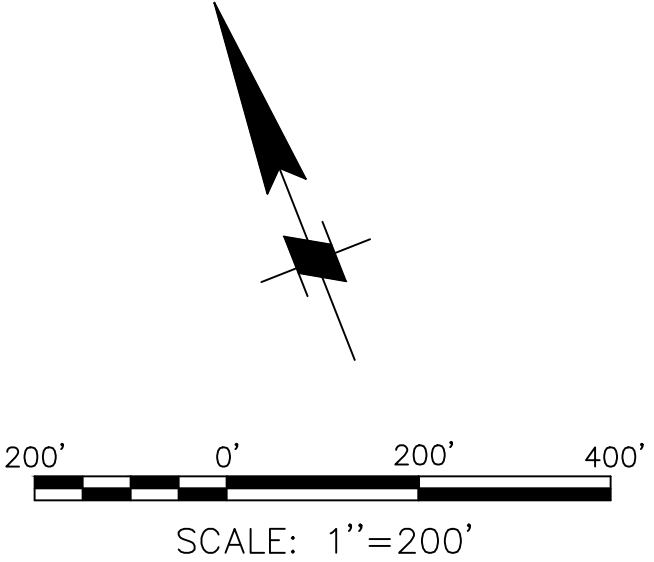
DIAL TOLL FREE

1-800-227-2600

AT LEAST TWO DAYS BEFORE YOU DIG



* NEW WEST END PROFILES REQUESTED BY CCC FOR BIOLOGICAL IMPACT STUDY AND FIRST SURVEYED IN SPRING 2013.



60% SUBMITTAL

NO.	REVISION	BY	DATE



MOFFATT & NICHOL

DESIGNED BY

Aaron Holloway, P.E.

DRAWN BY

S. Salazar

CHECKED BY

Chris Webb

IN CHARGE

Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT

California State Lands Commission

MAINTENANCE REACH AREAS

FOR SAND BACKPASSING

SCALE

1"=200'

DATE

OCT. 2013

JOB NO.

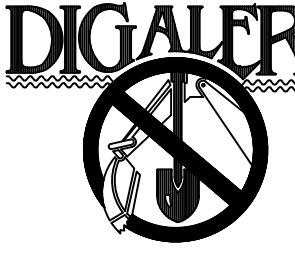
6935-02

SHEET

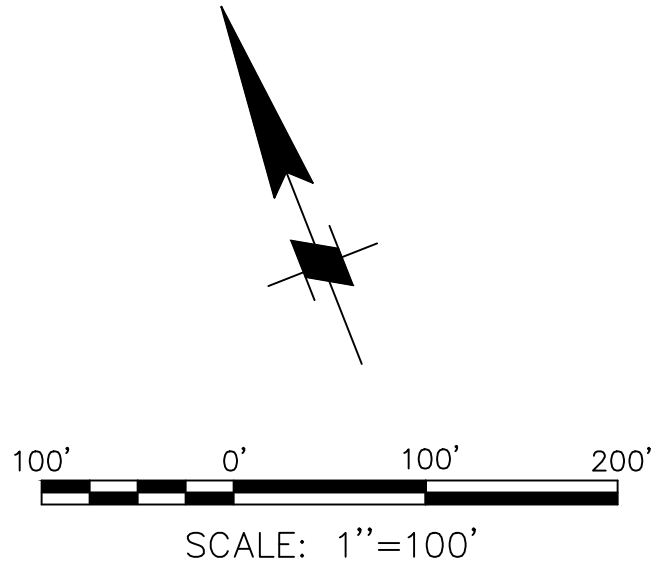
30 OF 42

MR-1

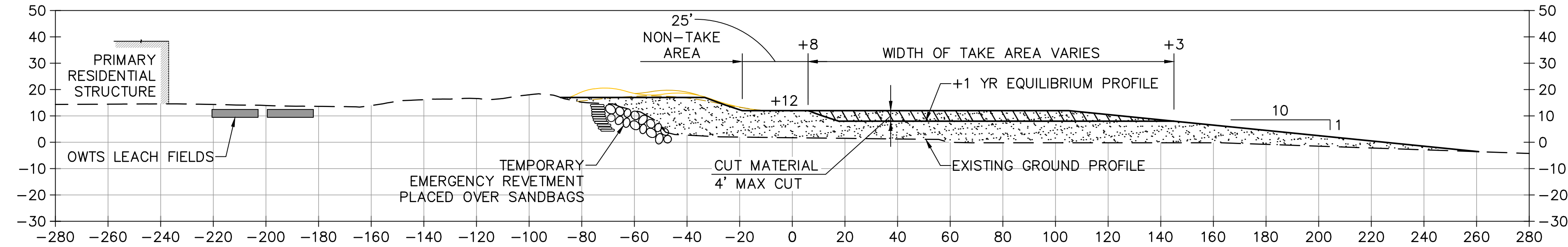
FINAL	
100%	
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CONCEPT	
STATUS	



DIALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

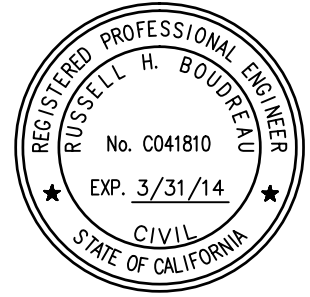



NOTE:
FOR 35,000 CY FROM COMBINED
TAKE AREAS MR 408/MR 409.



EAST BROAD BEACH – 409 PROFILE
PROPOSED BACKPASSING ACTION AT MR 408 AND MR 409 TO BORROW 35,000 CY
60% SUBMITTAL
1"=30'

NO.	REVISION	BY	DATE



	
DESIGNED BY: Aaron Holloway, P.E.	CHECKED BY: Chris Webb
DRAWN BY: S. Salazar	IN CHARGE: Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT California State Lands Commission	
TAKE AREA AT MR 408 AND MR 409 FOR SAND BACKPASSING	
SCALE AS NOTED	DATE OCT. 2013
JOB NO. 6935-02	
SHEET 31 OF 42	
MR-2	

FINAL
100%
%
%
CONCEPT
STATUS

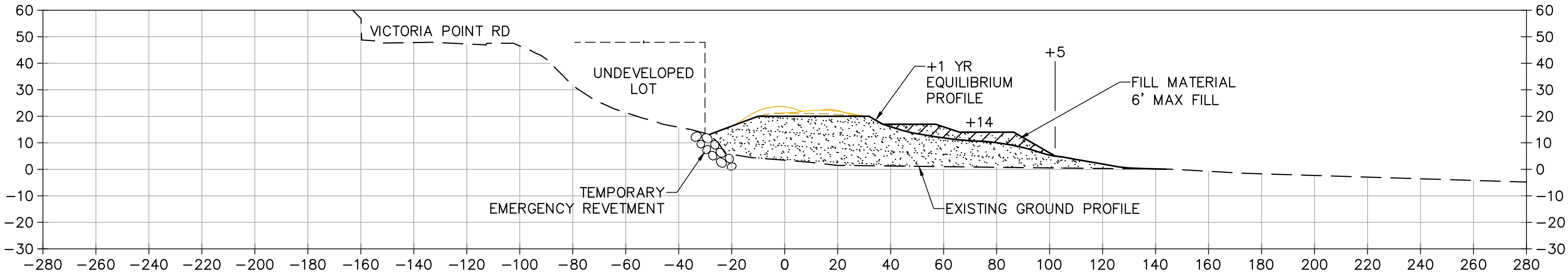
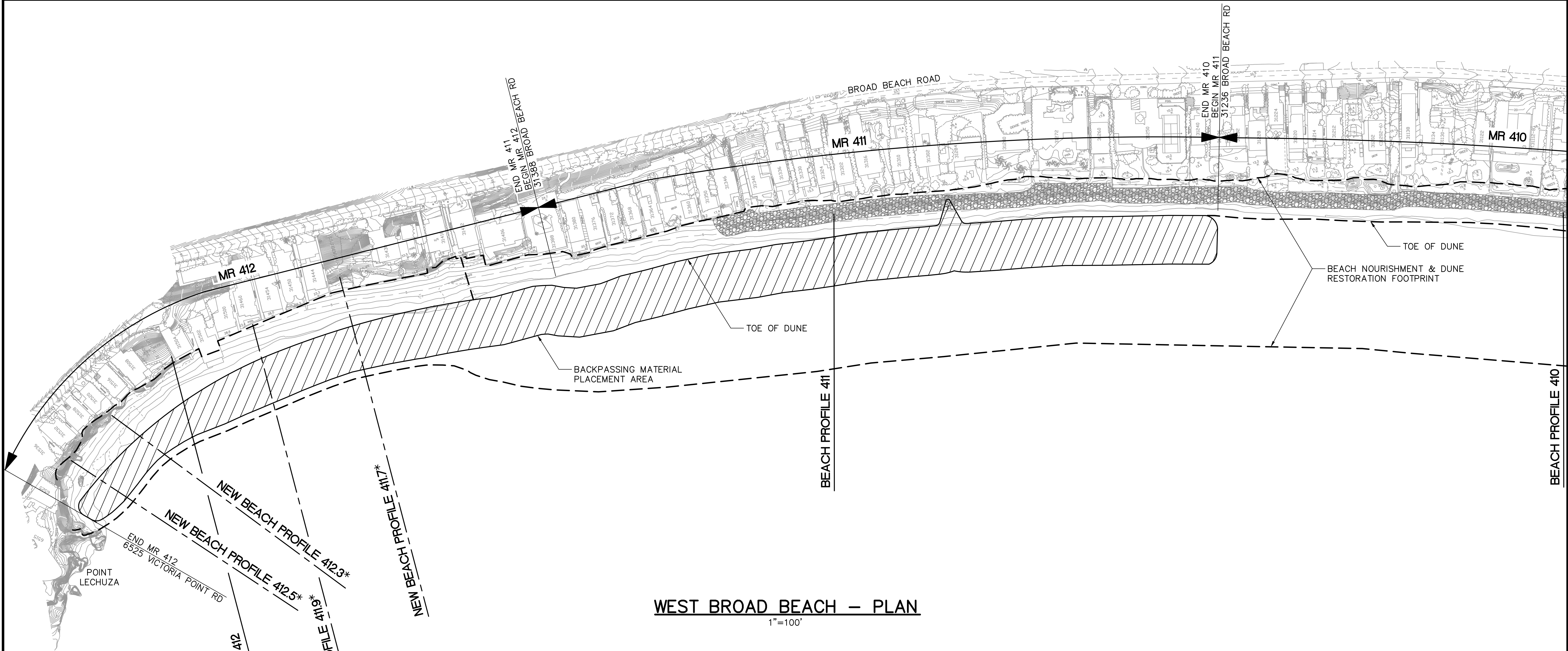
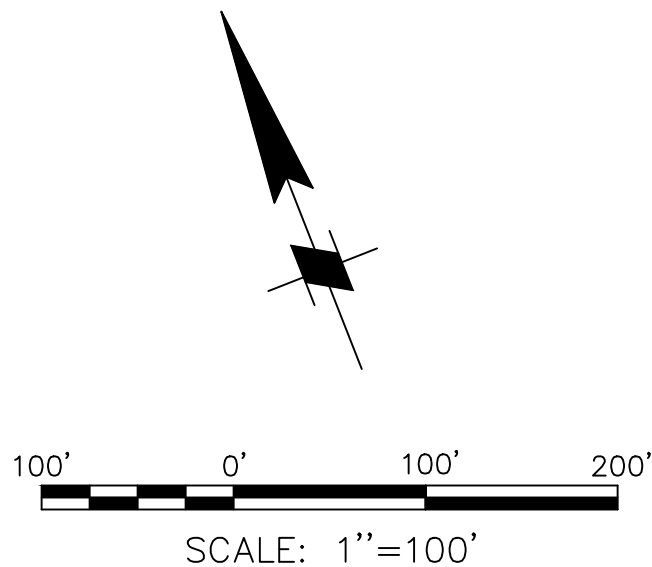
* NEW WEST END TRANSECTS REQUESTED
BY CCC FOR BIOLOGICAL IMPACT STUDY.
PROFILES FIRST SURVEYED IN SPRING 2013.

BACKPASS SCENARIO NO. 2 NOTES:

1. AVERAGE FILL PROFILE AT MR 412 FOR PLACEMENT
OF 35,000 CY AT MR 411 AND MR 412.
2. DEPTH OF FILL RANGES FROM 3 FEET TO 6 FEET.

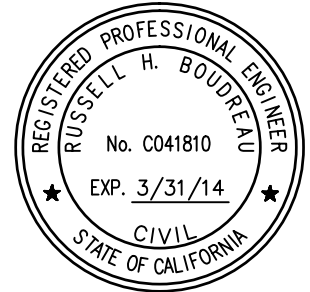
DIGALERT

DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



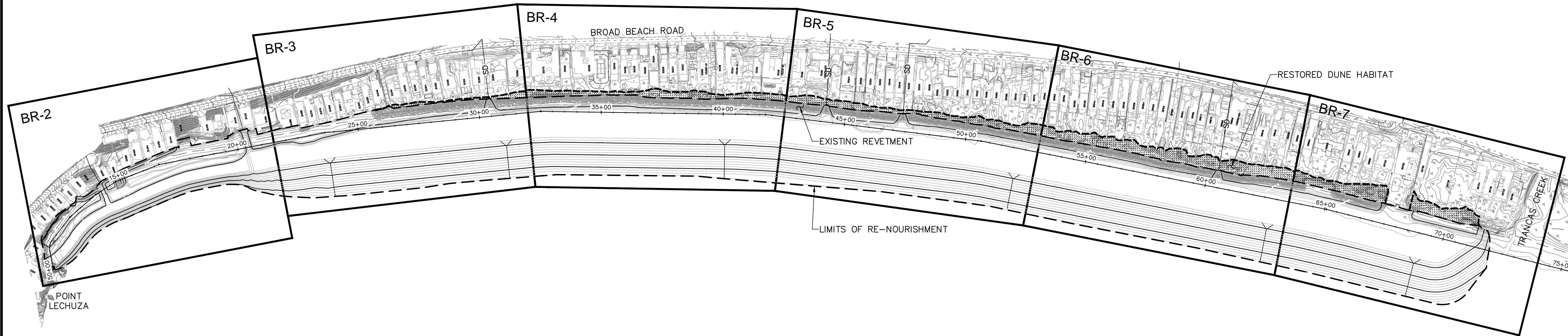
WEST BROAD BEACH - 412 PROFILE
PROPOSED BACKPASSING ACTION AT MR 411 AND MR 412 TO PLACE 35,000 CY
60% SUBMITTAL

NO.	REVISION	BY	DATE




DESIGNED BY: Aaron Holloway, P.E.	CHECKED BY: Chris Webb
DRAWN BY: S. Salazar	IN CHARGE: Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT California State Lands Commission	
PLACEMENT AREA AT MR 411 AND MR 412 FOR SAND BACKPASING	
SCALE: AS NOTED	DATE: OCT. 2013
JOB NO.: 6935-02	SHEET: 32 OF 42
MR-3	

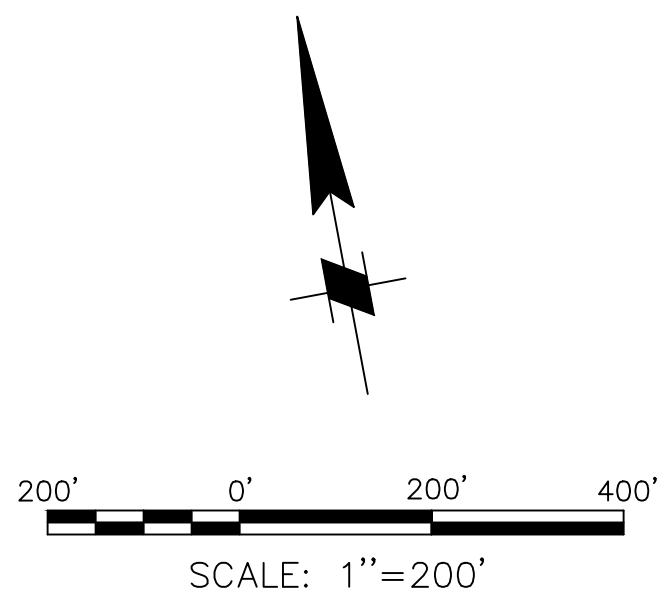


SHEET LAYOUT PLAN
1"=200'

FINAL
100%
50%
50%
CONCEPT
STATUS




DIALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



60% SUBMITTAL

NO.	REVISION	BY	DATE



	
DESIGNED BY: Aaron Holloway, P.E.	CHECKED BY: Chris Webb
DRAWN BY: S. Salazar	IN CHARGE: Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT California State Lands Commission	
BEACH RE-NOURISHMENT SHEET LAYOUT PLAN	
BR-1	

SCALE 1"=200'	DATE OCT. 2013
JOB NO. 6935-02	
SHEET 33 OF 42	
BR-1	

FINAL
100%
%
%
CONCEPT
STATUS

MATCH LINE SEE SHEET BR-2
STATION 21+50

DIGALERT



DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

40' 0' 40' 80'
SCALE: 1"=40'

LIMITS OF RE-NOURISHMENT

60% SUBMITTAL

POST NOURISHMENT TOE

NO.	REVISION	BY	DATE



DESIGNED BY Aaron Holloway, P.E.

CHECKED BY Chris Webb

DRAWN BY S. Salazar

IN CHARGE Russell Boudreau, P.E.

BROAD BEACH
California State

BEACH RECONSTRUCTION
STA 21+50

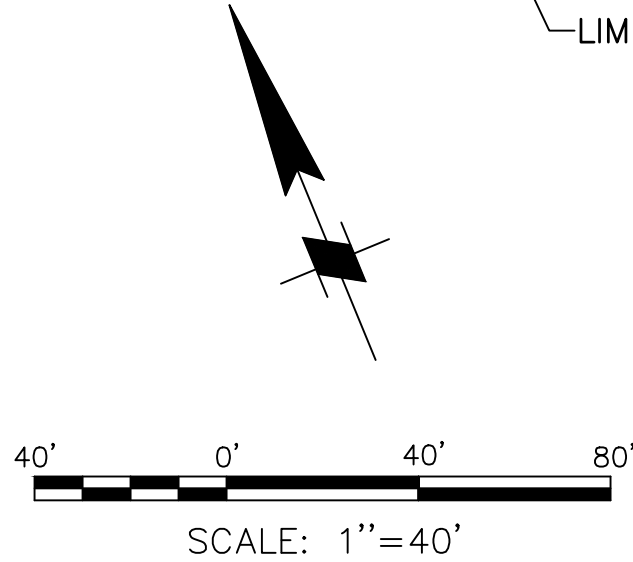
DRI

FINAL
100%
%
%
CONCEPT
STATUS



60% SUBMITTAL

DIGALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



NO.	REVISION	BY	DATE



DESIGNED BY: Aaron Holloway, P.E.	CHECKED BY: Chris Webb
DRAWN BY: S. Salazar	IN CHARGE: Russell Boudreau, P.E.

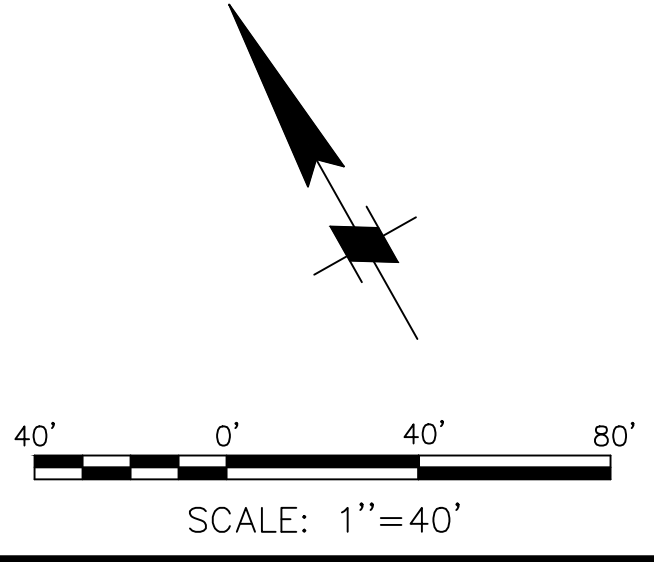
BROAD BEACH
California State
BEACH RECONSTRUCTION
STA32

FINAL
100%
%
%
CONCEPT
STATUS

MATCH LINE SEE SHEET BR-4
STATION 42+50

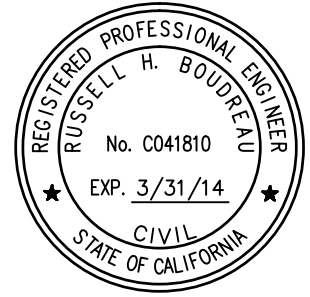


DIGALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



60% SUBMITTAL

NO.	REVISION	BY	DATE

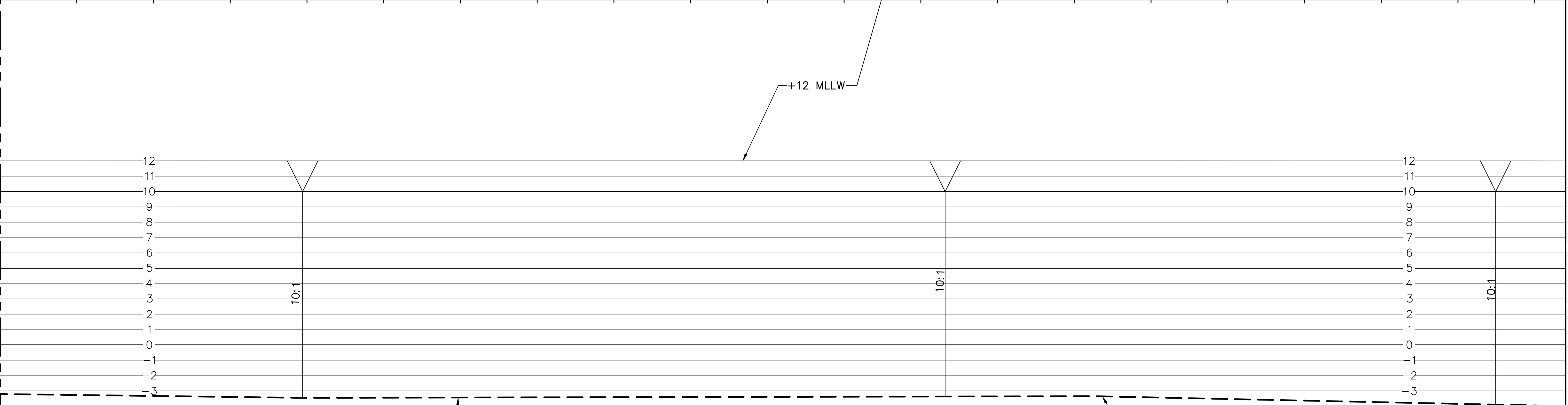
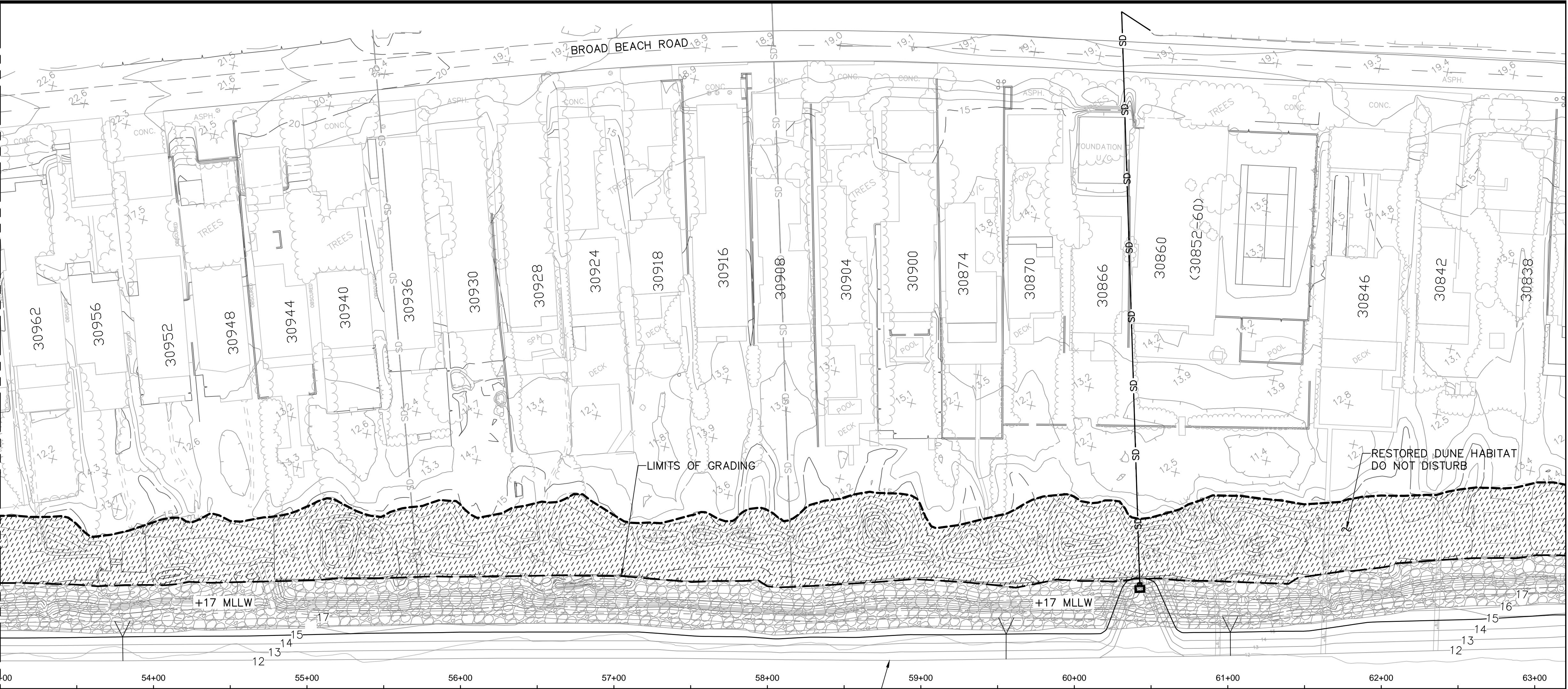


MOFFATT & NICHOL	
DESIGNED BY: Aaron Holloway, P.E.	CHECKED BY: Chris Webb
DRAWN BY: S. Salazar	IN CHARGE: Russell Boudreau, P.E.

BROAD BEACH
California State
BEACH RE
STA 42

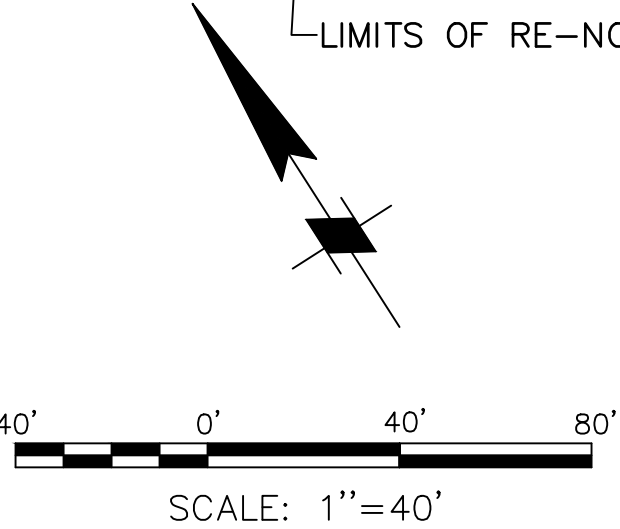
FINAL
100%
%
%
CONCEPT
STATUS

MATCH LINE SEE SHEET BR-5
STATION 53+00



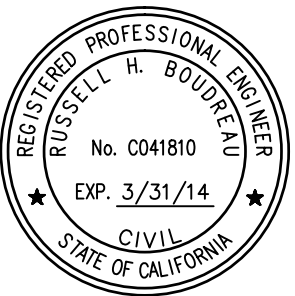



DIALERT
DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



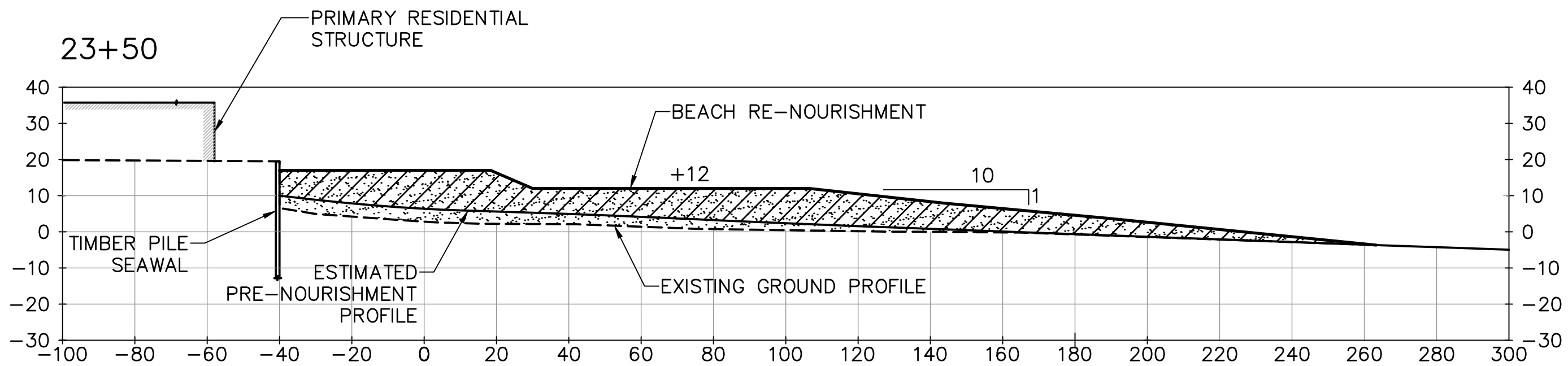
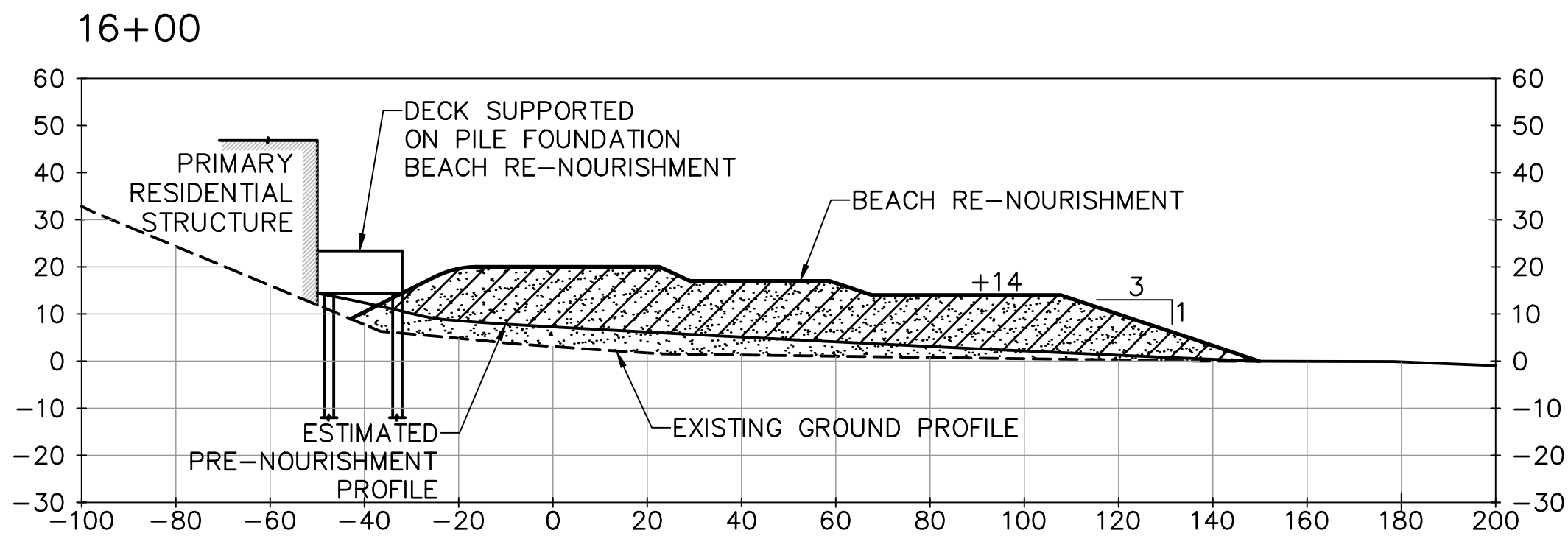
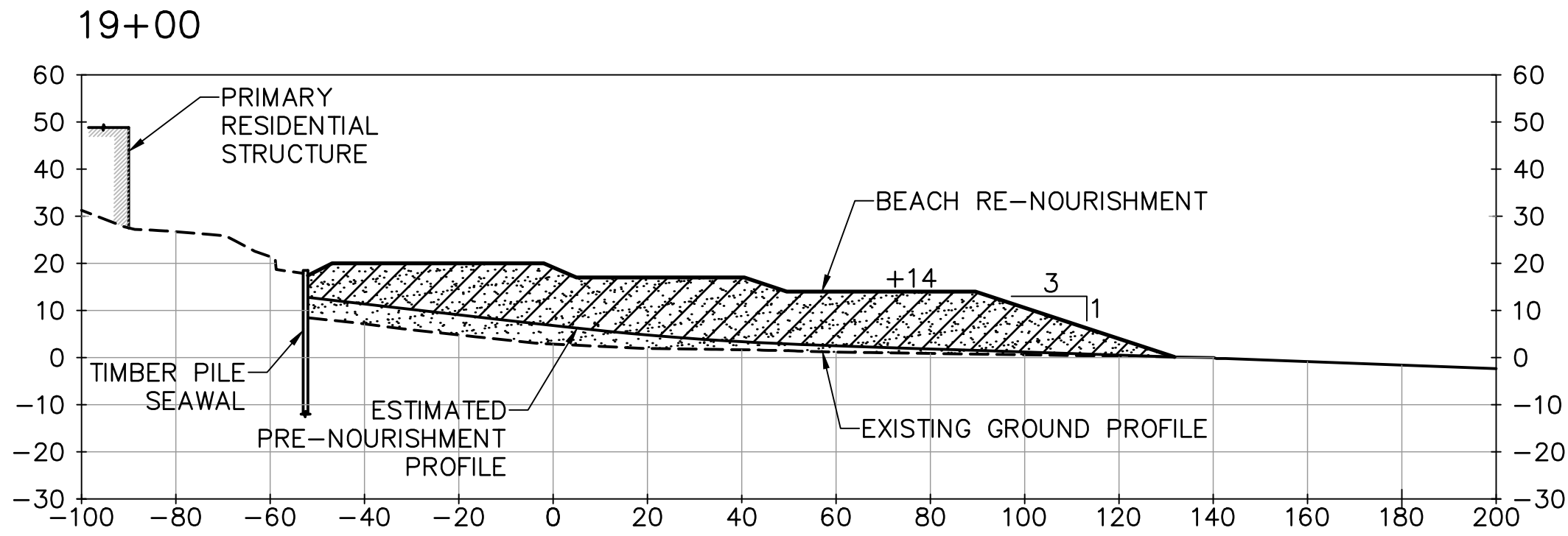
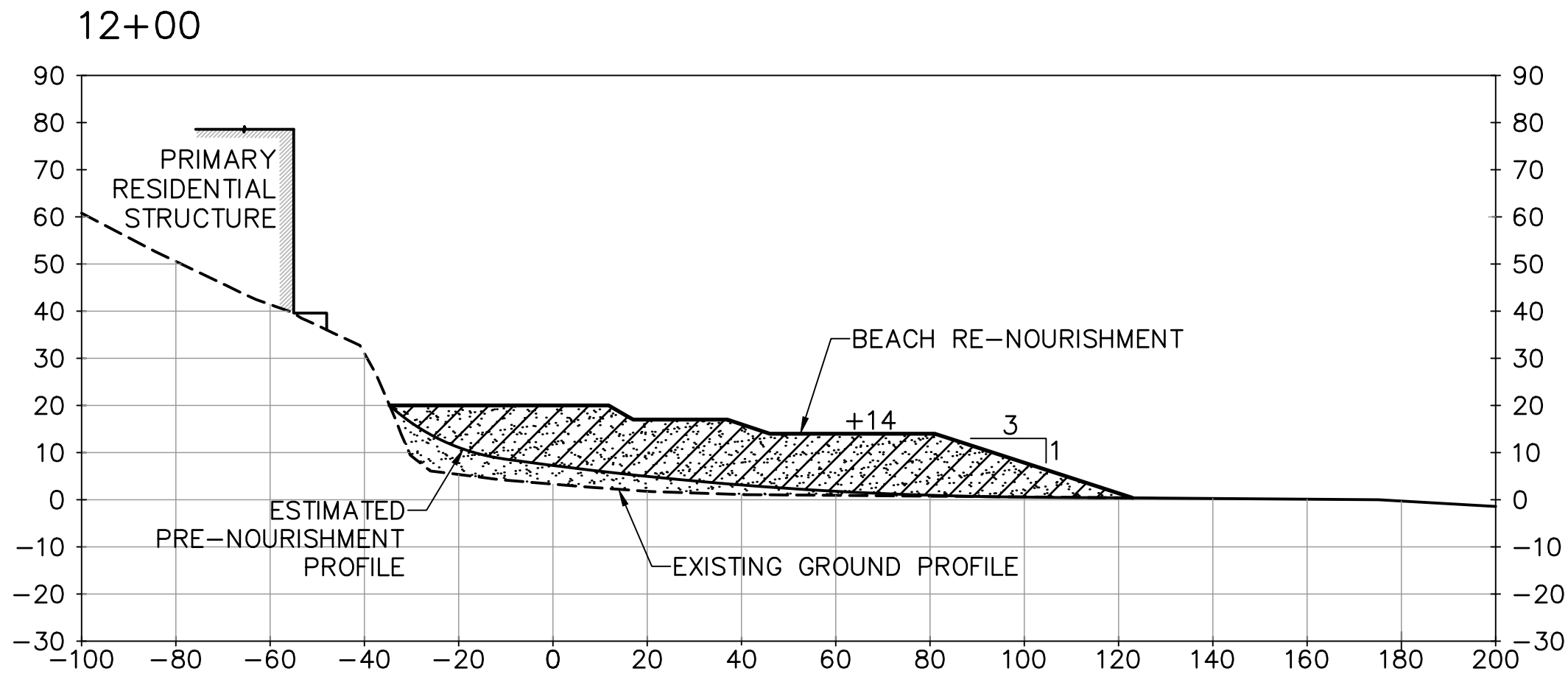
60% SUBMITTAL

NO.	REVISION	BY	DATE



	
DESIGNED BY Aaron Holloway, P.E.	CHECKED BY Chris Webb
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BROAD BEACH
California State
BEACH RE
STA53

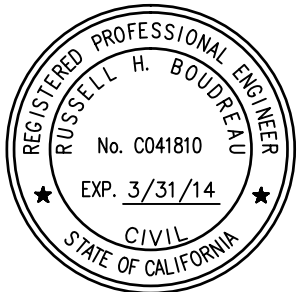


LEGEND:

- MATERIAL REMAINING FROM INITIAL NOURISHMENT
- MAXIMUM RE-NOURISHMENT TEMPLATE
- EXISTING GROUND PROFILE (PRE-PROJECT)
- ESTIMATED PRE-NOURISHMENT PROFILE AT 10 YEARS

60% SUBMITTAL

NO.	REVISION	BY	DATE




DESIGNED BY	Aaron Holloway, P.E.	CHECKED BY	Chris Webb
DRAWN BY	S. Salazar	IN CHARGE	Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT
California State Lands Commission
TYPICAL RE-NOURISHMENT SECTIONS
STA 12+00 TO STA 23+50

SCALE	DATE
1"=30'	OCT. 2013
JOB NO.	6935-02
SHEET	40 OF 42
XS-4	



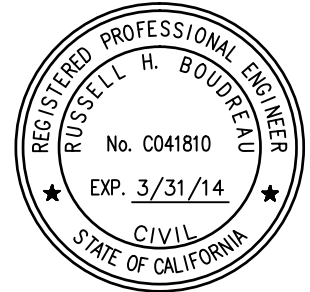



DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

- LEGEND:
- MATERIAL REMAINING FROM INITIAL NOURISHMENT
 - MAXIMUM RE-NOURISHMENT TEMPLATE
 - EXISTING GROUND PROFILE (PRE-PROJECT)
 - ESTIMATED PRE-NOURISHMENT PROFILE AT 10 YEARS

60% SUBMITTAL

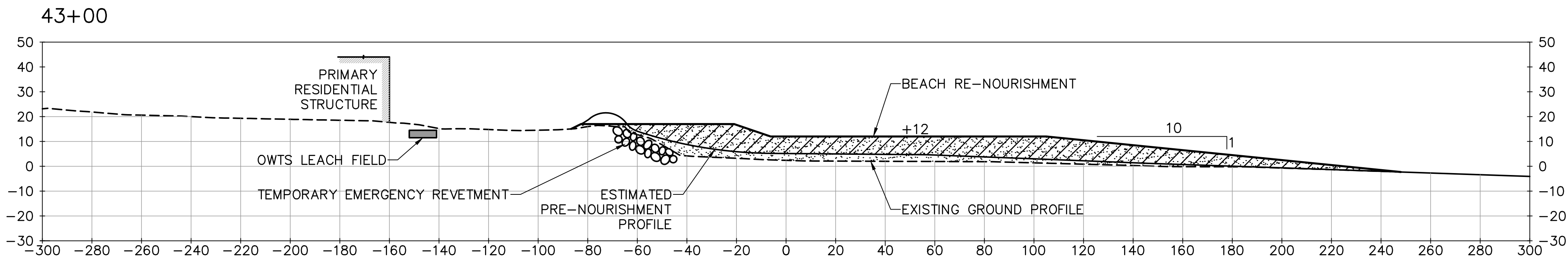
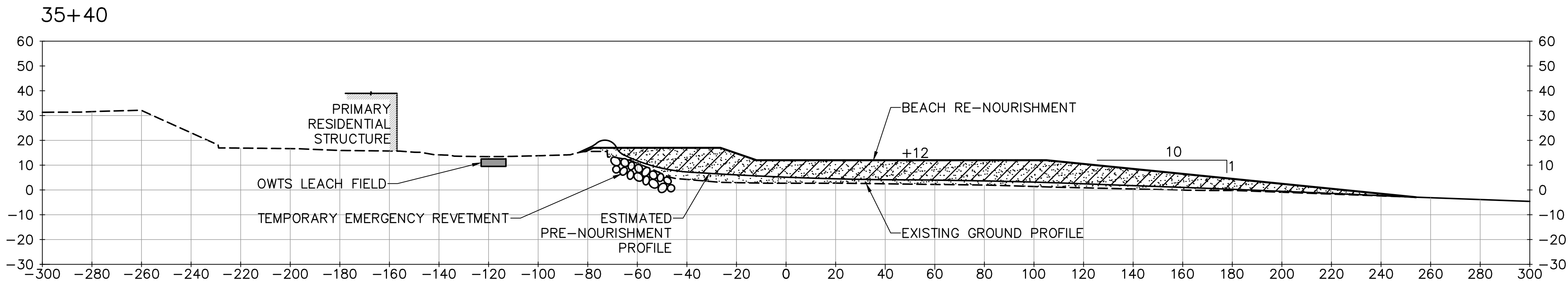
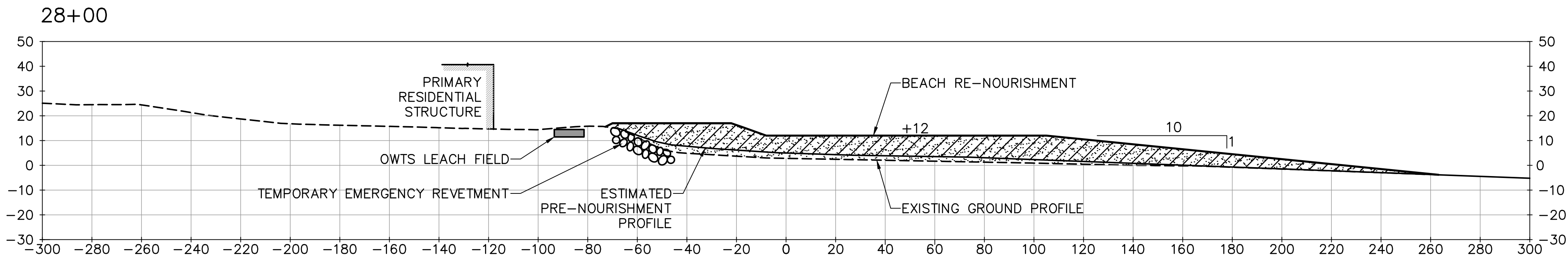
NO.	REVISION	BY	DATE



	
DESIGNED BY	Aaron Holloway, P.E.
CHECKED BY	Chris Webb
DRAWN BY	S. Salazar
IN CHARGE	Russell Boudreau, P.E.

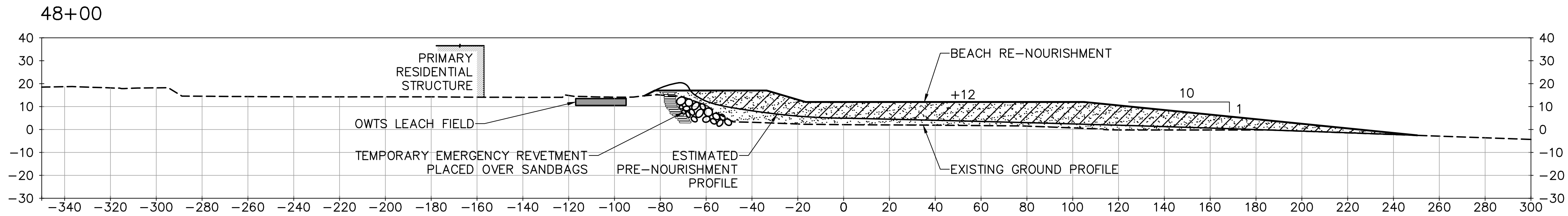
BROAD BEACH RESTORATION PROJECT California State Lands Commission	
TYPICAL RE-NOURISHMENT SECTIONS STA 28+00 TO STA 43+00	
XS-5	

SCALE	DATE
1"=30'	OCT. 2013
JOB NO.	6935-02
SHEET	41 OF 42
XS-5	



DIGALERT

DIAL TOLL FREE
1-800-227-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



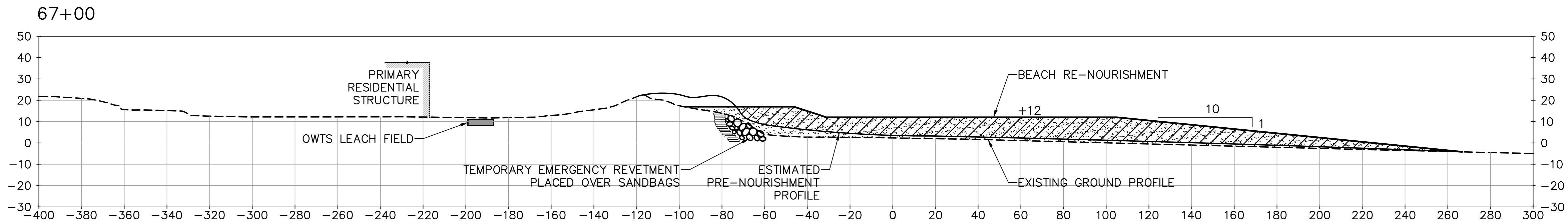
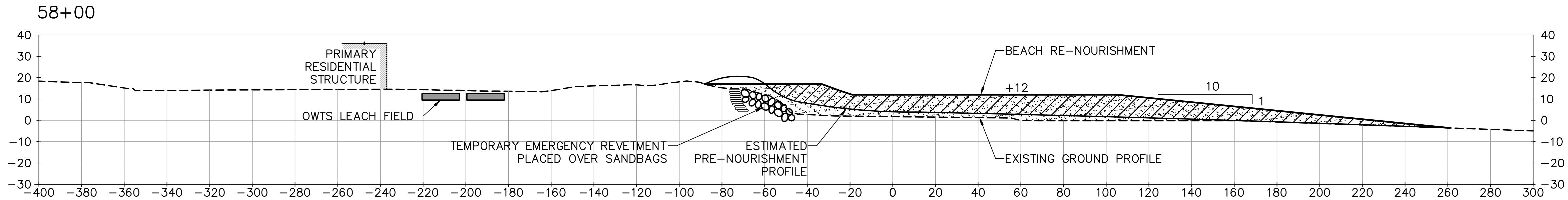
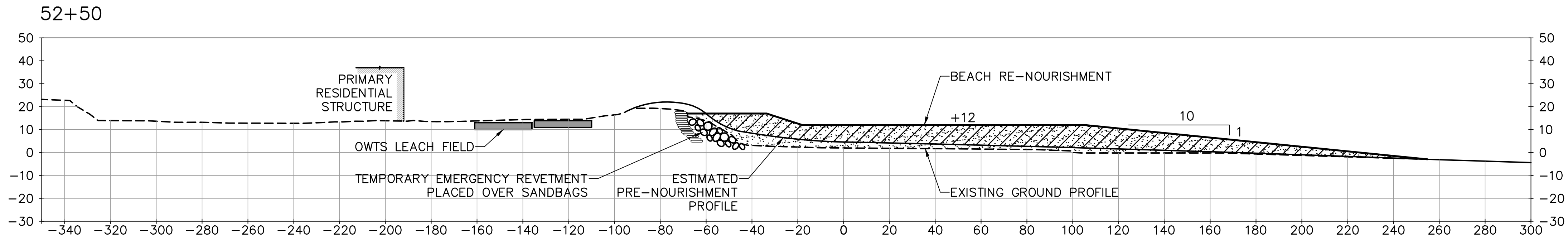
LEGEND:

MATERIAL REMAINING FROM INITIAL NOURISHMENT

MAXIMUM RE-NOURISHMENT TEMPLATE

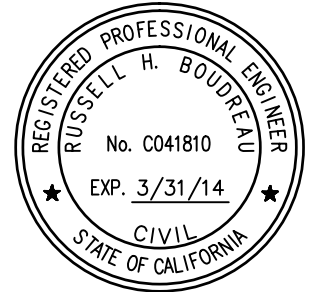
EXISTING GROUND PROFILE (PRE-PROJECT)

ESTIMATED PRE-NOURISHMENT PROFILE AT 10 YEARS



60% SUBMITTAL

NO.	REVISION	BY	DATE



DESIGNED BY Aaron Holloway, P.E.
DRAWN BY S. Salazar

CHECKED BY Chris Webb
IN CHARGE Russell Boudreau, P.E.

BROAD BEACH RESTORATION PROJECT
California State Lands Commission

TYPICAL RE-NOURISHMENT SECTIONS
STA 48+00 TO STA 67+00

SCALE 1"=30'	DATE OCT. 2013
JOB NO. 6935-02	
SHEET 42 OF 42	
	XS-6